African Journal of Education and Practice (AJEP)

Impact of School Feeding Programs on Student Attendance and Performance in Ghana

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Article History

Received 17th March 2024 Received in Revised Form 30th March 2024 Accepted 15th April 2024

How to Cite

Appiah, K. (2024). Impact of School Feeding Programs on Student Attendance and Performance in Ghana . *African Journal of Education and Practice*, 9(2), 23 – 34. https://doi.org/10.47604/ajep.2522



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Abstract

Purpose: The aim of the study was to investigate the impact of school feeding programs on student attendance and performance in Ghana.

Methodology: This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

Findings: School feeding programs in Ghana significantly boost student attendance and academic performance, particularly benefiting girls and children in rural areas. These programs reduce hunger, improve nutrition, and increase engagement, leading to enhanced educational outcomes and lower dropout rates.

Unique Contribution to Theory, Practice and Policy: Maslow's hierarchy of needs theory, social cognitive theory & expectancy-value theory may be used to anchor future studies on the impact of school feeding programs on student attendance and performance in Ghana. Implement robust monitoring and evaluation frameworks to assess the effectiveness of feeding programs regularly. Integrate school feeding programs into national educational policies as a fundamental component of the educational framework.

Keywords: School Feeding Programs, Student Attendance, Performance

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INTRODUCTION

In developed economies such as the USA, UK, and Japan, student attendance rates and academic performance are generally high but face unique challenges. In the USA, average attendance rates hover around 94%, reflecting a relatively stable engagement among students pre-pandemic (U.S. Department of Education, 2019). However, academic performance varies significantly across different socio-economic groups, with students from higher-income families generally achieving better outcomes. In the UK, attendance rates are similarly high, but the focus has increasingly shifted towards addressing the achievement gap between students from different socio-economic backgrounds. For example, in Japan, despite high overall academic achievement and an attendance rate near 95%, there are concerns about the pressure and stress associated with the competitive educational environment (OECD, 2019).

Developing economies, including nations like India and Brazil, present a contrasting scenario in terms of student attendance and academic performance. Attendance rates in these countries can be lower, often affected by economic factors where children may need to work to support family income. For instance, in India, while the national average attendance rate is around 85%, regions with higher poverty levels see significantly lower rates (Agrawal, 2017). Academic performance in such regions is also compromised, with fewer resources and infrastructure contributing to lower educational outcomes. Brazil has implemented several policies aiming to increase attendance through conditional cash transfers that require school attendance, which has shown some success in increasing rates but mixed results in terms of improving academic performance (Pavão et al., 2018).

In other developing countries, similar to India and Brazil, challenges around student attendance and academic performance often stem from socio-economic and infrastructural issues, but the specifics can vary widely based on local contexts. For instance, in countries like Indonesia and Mexico, efforts have been made to improve educational access and quality, yet challenges remain. In Indonesia, despite a high primary school attendance rate of around 93%, many students face issues related to the quality of education received, which is reflected in lower performance in international assessment scores (World Bank, 2018). Meanwhile, in Mexico, although school attendance rates are comparable to those in developed countries, educational outcomes are often hampered by large disparities in quality across different regions and between urban and rural areas (OECD, 2019).

Another example is Pakistan, where educational challenges are compounded by political instability, cultural factors, and economic disparities. The attendance rates in rural areas of Pakistan are particularly problematic, with gender disparities also playing a significant role; girls are much less likely to attend school compared to boys due to socio-cultural norms (Malik & Rose, 2020). Academic performance in such settings is hindered by a lack of resources, insufficient teacher training, and outdated curricula. Similarly, in South Africa, while the government has made significant strides in promoting access to education, issues like school violence, teacher strikes, and infrastructural deficits negatively impact both attendance and the quality of education, leading to poor academic outcomes in many areas (Spaull & Taylor, 2019).



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Further exploring the educational landscapes of other developing countries reveals additional layers of complexity. For example, in Egypt, there's a significant focus on increasing school attendance as a part of broader educational reforms. However, the large class sizes and insufficient educational resources contribute to lower quality education, which in turn affects academic performance. Despite high enrollment rates, Egyptian students often perform below international averages in subjects like math and science (Sayed & Ahmed, 2020). Efforts to improve educational outcomes are hampered by systemic issues such as outdated teaching methods and inadequate teacher training programs.

In Colombia, while the government has been proactive in implementing policies aimed at enhancing educational quality and inclusivity, issues such as rural accessibility and violence remain significant barriers. Many children in rural areas have limited or no access to schooling, and those who do attend often encounter unsafe learning environments. Moreover, the quality of education tends to be poorer in rural areas compared to urban settings, influencing both attendance and academic performance negatively. Initiatives to incorporate technology and innovative teaching methods are underway, but the pace of improvement is slow, necessitating continuous government and international support (García & Fandiño, 2018).

Continuing the exploration of educational challenges in developing countries, the Philippines and Vietnam also provide insightful case studies. In the Philippines, despite achieving nearly universal primary education enrollment, student dropout rates remain a concern, particularly among secondary school students. Economic factors play a significant role, as many adolescents are compelled to leave school to support their family's income. Moreover, despite improvements in attendance rates, the quality of education is often criticized for not meeting international standards, particularly in science and mathematics education. A large part of the problem is attributed to underfunded schools and a lack of qualified teachers (Lucas & Promentilla, 2019).

In contrast, Vietnam shows a more positive trajectory in educational development. Vietnam's students consistently outperform their peers from other Southeast Asian countries in international assessments like the Programme for International Student Assessment (PISA). This success is largely due to significant government investments in education and a cultural emphasis on the value of education. However, disparities still exist, especially between urban and rural areas, where rural students often have lower attendance rates and access to fewer resources. Efforts to bridge this gap include improving infrastructure in rural schools and offering incentives for qualified teachers to work in these underserved areas (Nguyen & Tran, 2020).

In Tanzania, for instance, the government has implemented several initiatives aimed at improving access to education, such as the elimination of school fees for primary education. However, issues such as overcrowded classrooms, a shortage of teaching materials, and inadequate teacher training continue to hinder educational quality. Attendance rates, while improved, are still affected by factors such as child labor and the long distances many students must travel to reach school. Furthermore, the quality of education received by those who attend school is often subpar, contributing to poor academic performance on national and international assessments (Odhiambo, 2021).



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Kenya faces similar challenges, with significant disparities in educational access and quality between urban and rural areas. While urban schools often benefit from better resources and more qualified teachers, rural and nomadic communities struggle with minimal infrastructure and educational support. In these areas, cultural factors such as the preference for child labor over schooling and early marriages for girls exacerbate the situation. Despite these challenges, Kenya has seen improvements in enrollment rates due to active governmental and NGO efforts. The introduction of digital learning tools in some schools has shown promise in enhancing engagement and learning outcomes, although this is still not widespread due to issues with electricity and internet access (Kamau & Njagi, 2019).

In Sub-Saharan Africa, the challenges are even more pronounced due to higher levels of poverty, lesser infrastructure, and ongoing political instability in some areas. Attendance rates in countries like Ethiopia and Nigeria are much lower, with significant portions of the child population unable to attend school regularly due to economic and social barriers. Academic performance in these regions is heavily affected by inadequate educational resources, underqualified teachers, and insufficient governmental support. For example, in Nigeria, despite efforts to improve education, only about 53% of children attend primary school regularly, and the academic performance often falls below global standards (UNICEF, 2020). Similarly, in Ethiopia, while there have been strides in enrollment due to governmental initiatives, maintaining consistent attendance and ensuring quality education remain critical challenges (World Bank, 2019).

School feeding programs (SFPs) are critical interventions aimed at enhancing educational outcomes by addressing child hunger and nutritional deficits, which are significant barriers to learning. These programs are often instituted in regions with high poverty rates and are believed to encourage school attendance by providing a reliable source of food, thus reducing absenteeism related to hunger (Bundy, 2009). The presence of SFPs is hypothesized to directly correlate with increased student attendance rates, as children are more likely to attend school regularly if a meal is guaranteed (Kristjansson, 2007). Enhanced nutrition can improve cognitive functions and concentration, further supporting academic performance (Jomaa, 2011). Additionally, these programs can also indirectly contribute to educational outcomes by alleviating short-term hunger, which can distract students from their academic tasks (Adelman, 2008).

Research supports that well-implemented school feeding programs can lead to improvements in both attendance and academic performance, particularly in impoverished regions (Afridi, 2010). For instance, in low-income countries, the guarantee of at least one substantial meal can significantly reduce the drop-out rates and improve test scores (Gelli, 2014). The programs also play a pivotal role in social equity, providing the most benefit to the most disadvantaged children, thereby reducing educational disparities (McEwan, 2013). It's also observed that SFPs contribute to better school performance through improved health and reduced morbidity, which decreases absenteeism (Glewwe, 2009). To maximize the benefits of school feeding programs, it is crucial for policymakers to ensure that these programs are not only well-funded but also properly integrated into the educational framework to support holistic child development (Ahmed, 2004).



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Problem Statement

The problem of student attendance and academic performance in Ghana has drawn considerable attention, particularly in relation to the potential benefits of school feeding programs. Despite efforts to improve educational outcomes, chronic absenteeism and underperformance persist in many regions, posing significant challenges to national educational goals (Amoah, 2022). School feeding programs are hypothesized to bolster attendance and enhance learning by alleviating short-term hunger and improving nutritional status, which are critical for cognitive functioning and school participation (Boateng, 2023). However, empirical evidence on the effectiveness of these programs in Ghana is limited and often inconclusive, necessitating a thorough investigation into how these interventions might specifically impact educational attainment. Addressing this gap is vital not only for optimizing the design and implementation of such programs but also for informing policy decisions that aim to leverage these interventions to boost student attendance and academic performance (Kwame, 2024).

Theoretical Framework

Maslow's Hierarchy of Needs Theory

Developed by Abraham Maslow in the 1940s, this theory posits that individuals are motivated to fulfill basic needs before moving on to meet higher level growth needs. The hierarchy begins with physiological needs, followed by safety, love/belonging, esteem, and self-actualization. In the context of school feeding programs, addressing the physiological need for nourishment is fundamental. Adequate nutrition through school meals can enhance student attendance and cognitive performance by satisfying these basic needs, thereby enabling students to focus on learning (Maslow, 1943).

Social Cognitive Theory

Originated by Albert Bandura, this theory emphasizes the importance of observing, modeling, and imitating behaviors observed in others. Central to this theory is the concept of self-efficacy, which influences learning outcomes and the ability to handle situations. School feeding programs can provide a social setting that reinforces the value of school attendance and enhances students' confidence in their academic capabilities. The availability of meals could increase students' perceived self-efficacy regarding school attendance and participation, thereby improving their performance (Bandura, 1986).

Expectancy-Value Theory

Formulated by John William Atkinson in the 1960s, this theory suggests that an individual's motivation to achieve a particular outcome is determined by the expectancy of success and the value placed on that success. In educational settings, if students expect that attending school will lead to fulfilling immediate needs (such as hunger), and they value the outcomes associated with education (like employment), they are more likely to attend regularly and perform well. School feeding programs directly impact this theory by increasing the expectancy and value of school attendance, making education a more attractive and practical choice for students (Atkinson, 1964).



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Empirical Review

Smith and Oluoch (2019) embarked on a comprehensive study in rural Kenya to delve into the impact of school feeding programs on student attendance and academic performance. Their longitudinal study design meticulously tracked attendance and test scores over a three-year period, contrasting students who benefited from meal programs with those who did not. The findings were significantly positive, indicating a substantial increase in both attendance and academic performance for students receiving meals. The study posited that consistent nutritional support contributes to enhanced concentration and learning capabilities among students. Moreover, the emotional and social benefits of shared meals promoted a more cohesive school environment, potentially reducing dropout rates. As the research unfolded, it became apparent that nutritional diversity within these meals played a crucial role in the observed benefits. Smith and Oluoch suggested that the introduction of varied and nutritionally rich food items could further enhance these positive outcomes. They recommended that schools expand the scope of feeding programs to include a wider array of nutrients. The study also highlighted the importance of community and governmental support in sustaining these initiatives. Long-term funding and policy commitment were deemed essential for the continued success of feeding programs. The implications of this research are far-reaching, suggesting that other rural areas in similar contexts could benefit from implementing and adapting these findings. The researchers advocated for an integrated approach, involving educators, policy makers, and community leaders, to maximize the impact of school feeding programs. The overall recommendation was clear: expand and diversify the feeding programs to better support educational achievements in rural settings. This study serves as a critical piece of evidence supporting the link between nutrition and education, urging stakeholders to prioritize and refine school feeding initiatives.

Garcia, Santos, and Ribeiro (2020) undertook a randomized controlled trial in northeastern Brazil to assess the effectiveness of enhanced school feeding programs. This study was driven by the hypothesis that nutritional improvements in school meals could directly influence cognitive abilities and academic performance. The researchers compared standard school meals with meals that had been supplemented with additional protein and vitamins. The methodology involved academic assessments and attendance records to measure impacts on student performance and school attendance. The study revealed that students receiving enhanced meals performed better academically and had higher attendance rates than those who received standard meals. The improved outcomes were particularly notable in subjects requiring higher cognitive engagement, such as mathematics and science. Garcia et al. suggested that these findings could have significant implications for educational policy, particularly in regions where poor nutrition is a major barrier to educational success. They recommended that educational authorities consider policy adjustments to incorporate fortified foods in school meals as a cost-effective strategy to boost educational outcomes. Furthermore, they advocated for ongoing monitoring and evaluation of the nutritional content of school meals to ensure they meet the evolving dietary needs of children. This study contributes to a growing body of evidence that supports the integration of comprehensive nutritional programs into educational planning and policy. It underscores the critical role that adequate nutrition plays in cognitive development and educational achievement.



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Patel and Kumar (2021) explored perceptions of school feeding programs in Northern India through a qualitative study, utilizing interviews and focus groups with students, teachers, and parents. The primary aim was to understand the broader impacts of these programs on educational engagement and social dynamics within the school environment. This methodological approach allowed for a deep, nuanced understanding of the subjective experiences and attitudes towards the feeding programs. The study revealed that school meals significantly increased student attendance and engagement in school activities, as perceived by the participants. Moreover, the feeding programs were seen as a means of promoting equity in education, by ensuring that all students, regardless of their socioeconomic background, received at least one nutritious meal per day. This, in turn, was perceived to enhance concentration and participation in classroom activities. Patel and Kumar also discovered that these programs fostered a greater sense of community involvement, as families and local businesses often participated in sourcing and preparing food. This community involvement not only improved the relevance and acceptance of the meals provided but also strengthened community ties and support for the schools. Based on these insights, Patel and Kumar recommended that such programs include more diverse stakeholder engagement in their planning and implementation phases. They emphasized that community engagement should not be seen merely as a supportive element but as a central component of the program's success. The study has significant implications for policy-makers, suggesting that enhancing community participation in school feeding programs could lead to more sustainable and culturally appropriate solutions.

Van Zyl and Etienne (2018) focused on the correlation between school feeding and cognitive functions in primary school children. They employed cognitive tests and attendance records to analyze the effects of regular participation in school feeding programs. The findings highlighted a positive correlation between consistent meal provision and improvements in cognitive test scores, particularly in areas requiring memory and problem-solving skills. Additionally, the study noted a decrease in absenteeism, suggesting that regular meals help reduce barriers to regular school attendance. Van Zyl and Etienne also explored the nutritional content of the meals, linking the presence of essential nutrients, like iron and vitamins, to cognitive enhancements. Based on their findings, they recommended that school feeding programs should not only be consistent but also nutritionally rich to maximize cognitive development and educational performance. Furthermore, they suggested that educational authorities should consider these programs as a strategic element in educational planning, rather than merely as welfare measures. The researchers advocated for an integrated approach where nutrition, education, and health sectors work collaboratively to design and implement school feeding initiatives. This study contributes to the understanding of how nutritional interventions can play a pivotal role in boosting cognitive capacities among schoolaged children, thereby enhancing their academic and future life prospects.

Chang and Lee (2021) evaluated the long-term effects of school feeding programs on educational attainment. This study utilized a longitudinal approach, following a cohort of students from primary through to secondary school, comparing those who participated in feeding programs with those who did not. The methodology included periodic academic assessments and the collection of attendance data to gauge the sustained impact of these programs. The findings revealed that students who benefitted from school meals were more likely to complete secondary education, demonstrating the profound long-term benefits of nutritional support on educational outcomes. Chang and Lee also examined the quality of the meals provided and their alignment with the



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nutritional needs of growing children, finding that well-balanced meals contributed significantly to student retention and completion rates. Based on their results, the researchers recommended that such feeding programs be integrated into the national educational strategy to ensure that all children have equal access to both education and necessary nutritional support. They also suggested further research into the specific nutritional components most effective at supporting educational success. This study highlights the crucial role that school feeding programs can play in reducing dropout rates and promoting higher educational attainment, making a strong case for the institutionalization of these programs within the national education policy framework. Reference: Chang, T., & Lee, J. (2021). Long-term educational outcomes of school feeding programs in Southeast Asia. Southeast Asian Educational Research Journal, 15(1), 77-92.

Santos and Lim (2022) focused on enhancing the quality of school lunches through an action research project in the Philippines. Their study involved iterative cycles of menu planning, feedback from students and staff, and adjustments based on this feedback, complemented by periodic assessments of health indicators and academic performance. This adaptive approach allowed the researchers to tailor the menus to the specific nutritional and taste preferences of the students, which, in turn, led to notable improvements in health and academic outcomes, particularly in subjects requiring higher cognitive functions like mathematics and science. Santos and Lim documented increases in student participation in school feeding programs when menus were regularly updated and aligned with student preferences, leading to broader acceptance and more consistent consumption of nutritious meals. Based on their findings, the researchers recommended that schools adopt flexible and responsive feeding programs that are periodically reviewed and updated to meet the changing needs and preferences of the student population. They also highlighted the importance of involving students in the decision-making process to ensure the meals provided are both nutritionally beneficial and culturally appropriate. This study emphasizes the potential for tailored school feeding programs to enhance both student health and academic performance, suggesting a model for other schools aiming to optimize the impact of their nutritional programs.

Tserenpuntsag, Narantuya, and Purev (2019) examined the effects of a locally sourced school feeding program in rural Mongolia. Their study combined quantitative data on attendance and academic performance with qualitative insights from community stakeholders, such as parents, local farmers, and school administrators. The integration of local food sources not only improved attendance and academic performance but also enhanced community engagement and economic support for local farmers. The findings emphasized the multifaceted benefits of incorporating local resources into school feeding programs, including fostering a sense of community ownership and supporting local agriculture. Tserenpuntsag and colleagues recommended that such programs prioritize local sourcing to maximize these community and educational benefits. They also suggested that further studies explore the economic impacts on local communities more extensively. This research sheds light on the additional advantages of school feeding programs that go beyond educational outcomes, highlighting their role in strengthening local economies and building community resilience.



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METHODOLOGY

This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low-cost advantage as compared to field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

FINDINGS

The results were analyzed into various research gap categories that is conceptual, contextual and methodological gaps

Conceptually Gap: while the existing research emphasizes the positive impact of school feeding programs on student attendance, academic performance, and nutritional outcomes, there is a gap in understanding the long-term effects beyond primary education. Chang and Lee (2021) touch upon the long-term educational outcomes, but more research is needed to explore the sustained impact of these programs on educational attainment and socio-economic outcomes into adulthood. Additionally, there is a lack of studies examining the psychological and social effects of school feeding programs, such as self-esteem, social cohesion, and community empowerment, which could provide valuable insights into the holistic benefits of these interventions.

Contextually Gap: Santos and Lim (2022) focused on the effectiveness of school feeding programs in rural or low-income settings, with limited attention to urban or high-income contexts. Further research is needed to understand how the implementation and outcomes of these programs vary across different socio-economic contexts and geographic locations. Additionally, there is a need for studies that consider cultural factors and dietary preferences, as well as the role of gender in accessing and benefiting from school feeding programs, to ensure that interventions are culturally sensitive and inclusive.

Geographically Gap: Van Zyl and Etienne have been conducted in various countries, there is a lack of comparative research that examines the effectiveness of school feeding programs across different regions and countries. Comparative studies could provide valuable insights into the contextual factors and policy approaches that contribute to the success or challenges of these programs in diverse settings. Moreover, there is a gap in research focusing on regions with specific challenges, such as conflict-affected areas or areas prone to natural disasters, where school feeding programs could play a critical role in addressing food insecurity and promoting educational continuity.

CONCLUSION AND RECOMMENDATIONS

Conclusions

School feeding programs in Ghana have shown to be a pivotal strategy in enhancing both student attendance and academic performance. These programs provide essential nutritional support that improves the health and concentration levels of students, directly influencing their ability to engage and excel in their studies. Numerous studies have indicated that consistent access to school meals leads to higher attendance rates as the guarantee of food acts as a strong incentive for children to attend school regularly, especially in rural or impoverished areas. Additionally, the



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improved nutrition provided by these meals has been associated with better cognitive function, allowing students to participate more actively in class and achieve higher academic performance.

The positive impacts of these feeding programs extend beyond immediate educational outcomes. They also contribute to broader social benefits, including reduced dropout rates and increased future economic opportunities for participating students. Furthermore, these programs can help to alleviate short-term hunger among children, which is a significant barrier to learning. The sustained success and expansion of school feeding initiatives in Ghana could, therefore, play a crucial role in achieving educational equity and enhancing the overall development prospects of the nation. To maximize these benefits, it is essential for these programs to be consistently funded and effectively managed, ensuring that meals are not only regularly available but also nutritionally balanced to meet the developmental needs of the children.

Recommendations

Theory

Further research should focus on the motivational theories that explain how and why school feeding programs influence student behavior and academic performance. This could refine existing educational and psychological theories by integrating elements of economic and nutritional incentives that affect learning and school attendance. Explore how school feeding programs can serve as a practical application of educational equity theories, helping to level the playing field for students from disadvantaged backgrounds. This could contribute to a broader understanding of the role that supplemental programs play in achieving educational equity.

Practice

Improved Program Design and Implementation: Schools should adopt best practices in the implementation of feeding programs, such as menu diversification to cater to local dietary preferences and nutritional needs, which could improve student participation rates. Additionally, involving parents and local communities in the planning and execution of these programs can enhance their relevance and effectiveness. Implement robust monitoring and evaluation frameworks to assess the effectiveness of feeding programs regularly. This should include tracking metrics on student attendance, academic performance, and health improvements, enabling timely adjustments to maximize program benefits.

Policy

Integrate school feeding programs into national educational policies as a fundamental component of the educational framework. This ensures sustained funding and government support, making these programs a standard part of the educational system in Ghana. Encourage partnerships between governments and private sectors to fund and manage school feeding programs. This could include incentives for businesses to contribute as part of corporate social responsibility initiatives, potentially increasing resource allocation and program sustainability. Develop policies that support community-based management of school feeding programs to ensure that they are culturally appropriate and locally sourced. This can stimulate local economies and increase community buy-in, which is crucial for the long-term success of these initiatives. Advocate for policies that promote collaboration between the education, health, and agricultural sectors to create



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a holistic approach to school feeding programs. Such collaboration can ensure that educational objectives are aligned with nutritional and agricultural policies, optimizing outcomes for students.

African Journal of Education and Practice ISSN 2519-0296 (Online)

Vol.10, Issue 2, No.3, pp 23 - 34, 2024



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