Journal of Media Horizons
ISSN: 2710-4060 2710-4052 Volume 6, Issue 3, 2025

NUCLEARIZATION OF SOUTH ASIA AND ITS IMPLICATIONS ON THE ECONOMY OF THE REGION

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DOI: https://doi.org/10.5281/zenodo.15796238

Keywords
Nuclearization, economic expenditure, Indo-Pak, defense spending, South Asia

Article History
Received on 26 May 2025
Accepted on 26 June 2025
Published on 02 July 2025

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Abstract
With a primary focus on India and Pakistan after their overt nuclearization in 1998, this research study examines the complex economic effects of nuclearization in South Asia. The paper explores the ways in which the need for nuclear deterrence has influenced defense budgets, discouraged foreign investment, slowed economic expansion, and impeded regional collaboration. The study's qualitative and descriptive methodology, backed by academic research and empirical data, leads it to the conclusion that nuclear rivalry has severely hampered economic development, particularly in Pakistan, even though it has stabilized strategic deterrence. To lessen the economic effects of strategic militarization in South Asia, the study urges improved crisis management, a rebalancing of defense and development goals, and the revitalization of regional economic frameworks.

INTRODUCTION

The strategic dynamics of South Asia have undergone major change as a result of the nuclearization of the region, which was signaled by the nuclear tests conducted by India in 1974 and Pakistan in 1998. The long-term economic effects of these innovations are still poorly understood, despite the fact that their immediate security and deterrent implications were extensively debated. Although nuclear capability is frequently viewed as a sign of national security and grandeur, it requires significant financial outlays that may take priority away from other areas of development (Kapur, 2007). The economic trade-offs of retaining and modernizing nuclear arsenals are crucial to comprehend in the context of South Asia, a region beset by poverty, underdevelopment, and recurrent conflicts.

Both India and Pakistan have set aside large amounts of their budgets for defense, frequently using perceived threats and hostilities as justifications (Sultan, 2019). Socioeconomic advancement has been hampered by this reallocation of funds from infrastructure, health care, and education, particularly in Pakistan, which experiences frequent economic crises. Furthermore, the South Asian nuclear arms race has exacerbated bilateral tensions, deterred international investment, and increased regional instability (Tellis, 2001). The financial strain of deterrence increases as both nations upgrade their nuclear arsenals, further taxing the public coffers.
Furthermore, as seen by the Kargil War (1999) and current border skirmishes, the existence of nuclear weapons has not completely removed the threat of conventional armed battles. In addition to having

significant political and economic implications, these wars also foster an atmosphere of insecurity that hinders regional collaboration and trade (Bajpai, 2002). Therefore, there is a paradox in the nuclearization of South Asia: although it may have promoted strategic stability through deterrence, it has also resulted in unintended economic costs that still have an impact on regional integration and growth.

One of the most significant changes to the regional security framework of the 20th and 21st century was the nuclearization of South Asia. A new age of strategic deterrence and intricate military rivalries was ushered in by India's 1974 nuclear test and Pakistan's May 1998 retaliatory nuclear test. The balance of power in the region was drastically changed when South Asia became the second region outside of the P5 (Permanent Members of the UN Security Council) to acquire nuclear weapons. The strategic advantages, however, have had significant economic repercussions that are sometimes overlooked in popular discourse.

From the creation of nuclear warheads and missile systems to the infrastructure needed for command and control, maintaining nuclear weapons systems requires significant financial outlays for emerging nations like India and Pakistan. These investments are made in areas that are already experiencing socioeconomic instability, poverty, and low human development indicators. Kapur (2007) asserts that there are unspoken but substantial economic costs associated with nuclear deterrence in South Asia, such as lower public spending on healthcare, education, and poverty alleviation.

Furthermore, there have been many military conflicts in the post-nuclear era, including the Kargil War in 1999, the standoff in 2001–2002, the Mumbai terror attacks in 2008, and the Balakot-Pulwama crisis in 2019. These conflicts have had a negative impact on regional economies even though they haven't escalated to full-scale conflict. Economic turbulence, such as trade disruptions, stock market volatility, and a decline in foreign direct investment, has followed each conflict event (Ahmed, 2020).

1.1- Problem Statement

Nuclear weapons have not promoted regional peace or economic integration, despite the fact that they are frequently credited with deterring full-scale conflict. Rather, nuclearization has inhibited regional collaboration, increased political mistrust, and provided justification for soaring defense budgets. Both India and Pakistan's ability to solve their primary development issues has been hampered by the redirection of national resources towards defense and deterrence. The economic effects of nuclearization in South Asia have not gotten enough scholarly attention, despite these worries.

1.2- Research Objectives

The primary objectives of this research are as follows:

I. To examine how much has been spent on defense in Pakistan and India since nuclearization and how this has affected economic expansion.
II. To investigate how investment objectives, budgetary planning, and public policy are impacted by nuclear deterrence posture.
III. To investigate the connection between regional economic instability and conflict dynamics.
IV. To evaluate the impact of India and Pakistan's nuclear rivalry on the likelihood of regional economic integration and cooperation.

1.3- Research Questions

I. What effects has nuclearization had on South Asia's defense budget trends?
II. How does nuclear deterrence affect public welfare and progress economically?
III. How have international investment and economic stability been impacted by nuclear-related conflicts?
IV. How does regional economic cooperation get shaped—or stalled—by nuclear rivalry?

1.4- Significance of the Study

For audiences involved in academia and policymaking, this research is important. In terms of academia, it adds to the little corpus of work that connects economic development and strategic studies, especially when considering nuclear South Asia. From a policy standpoint, it provides important information about how economic objectives in two of the world's most populous countries are impacted by defense and deterrent strategies. Regional leaders can make better decisions about budgetary allocations, foreign policy, and economic planning if they have a better understanding of the economic effects of

nuclearization. In an area where military competition still impedes socioeconomic advancement and regional integration, it can also serve as a guide for development organizations and international institutions as they formulate aid plans.

1.5- Scope and Limitations

The two South Asian nations with nuclear weapons, India and Pakistan, are the main subjects of this study. In order to give a targeted examination of the economic effects of overt nuclearization, it evaluates the years after 1998. Since the study's primary focus is economic analysis, it does not assess the strategic need or military efficacy of nuclear weapons. Limitations include the difficulty of measuring some indirect economic consequences, such as investor opinions or psychological effects on markets, and the availability of trustworthy defense spending data.

1- Literature Review

2.1- Theories of Nuclear Deterrence and Strategic Stability

India's first nuclear test in 1974 (Smiling Buddha) marked the beginning of regional nuclearization, but it was not until 1998, with the Pokhran-II and Chagai tests, that South Asia became an overtly nuclearized region. Since then, both countries have developed robust nuclear triads, tested various missile systems, and invested in second-strike capabilities (Tellis, 2001). The literature highlights that this nuclear buildup is driven by strategic insecurity, historical animosity, and the absence of formal arms control regimes (Perkovich, 1999). However, much of this scholarship remains centered on military doctrines and national security. A smaller but growing subset of research has started examining how nuclearization reshapes fiscal priorities and impedes economic cooperation (Sultan, 2019). Deterrence does not remove the possibility of escalation or miscalculation, even while it may improve strategic stability. Furthermore, strategic literature frequently ignores the financial costs associated with upholding deterrent postures, such as high defense expenditures and expensive modernization initiatives.

2-2- Nuclearization in South Asia: An Overview

Regional nuclearization began with India's first nuclear test (Smiling Buddha) in 1974, but South Asia did not become explicitly nuclearized until the Pokhran-II and Chagai tests in 1998. Since then, both nations have made investments in second-strike capabilities, tested a variety of missile systems, and established strong nuclear triads (Tellis, 2001). The research emphasizes that the lack of official arms control regimes, historical hostility, and strategic uncertainty are the main causes of this nuclear expansion (Perkovich, 1999). But a large portion of this research is still focused on national security and military concepts. How nuclearization alters fiscal priorities and obstructs economic cooperation is the subject of a modest but expanding body of study (Sultan, 2019).

2-3- Economic Costs of Nuclear Deterrence and Militarization

Militarization frequently results in large opportunity costs, especially in emerging nations. Even during economic downturns, Pakistan's defense budget has continuously exceeded 3% of GDP, but health and education spending has lagged behind (Fair, 2014). In the years since 1998, India has also greatly boosted its defense spending, frequently using geopolitical competition with China and Pakistan as justification. In South Asia, nuclear deterrence has ironically increased militarization rather than restraint, according to Kapur (2007), as both nations have invested in expensive nuclear delivery systems and surveillance infrastructure. Long-term developmental initiatives suffer as a result of this resource reallocation. According to Bajpai (2002), the costs of deterrence encompass not just direct budgetary expenditures but also indirect economic outcomes including decreased public sector investment, inflation, and fiscal deficits.

2-4- Foreign Investment, Conflict Dynamics, and Economic Volatility

The impact of conflicts with nuclear weapons on investor behavior is another crucial topic of concern. According to research, major market disruptions, currency devaluation, and the withdrawal of foreign direct investment (FDI) have resulted from periodic

Indo-Pak crises, including those that occurred in 1999, 2001–02, and 2019 (Ahmed, 2020). Investors typically steer clear of unstable areas where geopolitical conflicts may lead to interruptions, penalties, or uncertainty. Additionally, militarized conflicts have been empirically linked to slower growth rates in countries that are prone to conflict. Both India and Pakistan have seen declines in trade and investment during times of heightened tension, according to data from the World Bank. Multinational firms and regional trade organizations are among the economic actors who see the nuclear rivalry as a roadblock to long-term financial stability and economic integration (Hussain & Hussain, 2019).

2.5- Nuclear Rivalry and Regional Economic Cooperation

With intra-regional trade making up less than 5% of overall trade, compared to nearly 25% in ASEAN, South Asia is among the least economically linked regions in the world (World Bank, 2021). Under the framework of the South Asian Association for Regional Cooperation (SAARC), academics have repeatedly noted that the main obstacle to regional cooperation is the political animosity between India and Pakistan (Dash, 2008). According to the research, nuclearization has made matters worse by strengthening mistrust and encouraging a regional order that is centered on security. Military conflicts or diplomatic failures have frequently caused bilateral trade plans and connection projects to fail. Sultan (2019) contends that nuclear deterrence delays economic integration by giving political leaders a false sense of security that allows them to avoid substantive diplomatic engagement.

2.6- Gaps in the Literature

Although a large amount of study has been done on the strategic elements of nuclearization in South Asia, little of it has been done to link this to regional trade, social sector investment, and long-term economic development. The majority of studies examine defense budgets separately, ignoring the opportunity costs associated with infrastructure, health care, and education. Furthermore, there aren't many studies that compare the ways in which nuclear deterrence influences economic policymaking in Pakistan and India. By providing a multifaceted examination of the economic effects of nuclearization in South Asia, this study seeks to close these gaps.

2- Research Methodology

Research on the economic effects of nuclearization in South Asia was carried out using the following methodology. A qualitative, exploratory method was used due to the topic's complexity, which includes defense spending, economic development, foreign investment, and regional dynamics.

3.1- Research Design

The research design used in this study is qualitative and descriptive-exploratory. This method works well when studying intricately linked phenomena, like the connection between nuclearization and economic growth. The goal of the study is to comprehend patterns, find connections, and clarify underlying dynamics rather than to statistically test a particular hypothesis.

By using case studies of India and Pakistan, the two nuclear-armed states in South Asia, the research explores:

- The financial burden of upholding a nuclear deterrence posture;
- The effects of war episodes connected to nuclear weapons on foreign investment and economic growth;
- The wider ramifications of nuclear rivalry on regional economic cooperation.

3.2- Research Approach

The study uses an inductive methodology, which lets themes and conclusions come from the data analysis process rather than being forced through a preconceived theoretical framework. According to Creswell (2013), this is consistent with the interpretivist paradigm, which aims to comprehend social phenomena in their actual settings. In light of the topic's geopolitical and economic sensitivity, an exploratory, context-driven approach is more suitable than a positivist, empirical model.

3.3- Data Collection Methods

The research relies on secondary data collected from credible and diverse sources. These include:

- Academic journals (e.g., *Journal of Strategic Studies*, *South Asia Economic Journal*)
- Books and edited volumes by strategic studies scholars and economists
- Government publications (e.g., India and Pakistan's defense budgets, finance ministry reports)
- Reports from international organizations, including the World Bank, International Monetary Fund (IMF), and Stockholm International Peace Research Institute (SIPRI)
- Think tank publications (e.g., RAND Corporation, Carnegie Endowment for International Peace)
- News archives for tracking the timing and economic impact of key crises (e.g., Kargil, Balakot)

By synthesizing data from these sources, the study constructs a narrative of how nuclearization has affected the economic trajectories of South Asia's key players.

3.4- Data Analysis

Data was analyzed through thematic content analysis, with emphasis on identifying recurring patterns, contradictions, and trends across cases and sources. Key themes included:

- Post-nuclearization trends in defense spending.
- Foreign investment shifts after military crises.
- Economic trade-offs between security and development.
- Nuclear tensions impeding regional commerce and cooperation.

Where relevant, quantitative data such as GDP growth rates, FDI inflows, and defense budget allocations were included for illustrative purposes but were not subject to statistical analysis. Instead, they served to support the qualitative narrative.

3.5- Case Study Strategy

The study uses a comparative case study approach focused on India and Pakistan because of its regional focus.

These nations were picked because:

- They have a history of strategic rivalry and are both declared nuclear powers;
- They have frequently been involved in crises and conflicts since acquiring nuclear weapons;
- They face socioeconomic difficulties and need significant funding for development areas.

This approach makes it possible to compare in detail how nuclearization has affected economic paths in two states with diverse political and economic structures but similar security settings.

3.6- Ethical Considerations

This study minimizes ethical problems by using only publicly available secondary data and avoiding human volunteers. Nonetheless, care has been taken to:

- Accurately cite all sources and refrain from plagiarism.
- Analyze information objectively and scholarly.
- When examining delicate regional dynamics, stay away from politicization and prejudicial assumptions.

3.7- Limitations of the Study

While this research aims to provide a comprehensive analysis, it is subject to several limitations:

- Reliability of data: Defense-related data is frequently ambiguous or politically skewed, particularly in South Asia.
- Causality vs. correlation: Although there are connections between nuclearization and economic impacts, it is challenging to prove direct causation.
- Generalizability: Other South Asian countries including Bangladesh, Sri Lanka, and Nepal may be indirectly impacted by the study's focus on India and Pakistan.
- Temporal focus: The study mostly looks at the years after 1998, which might leave out important patterns from the years before nuclear power.

3- Data Analysis and Findings

Four main themes organized the study's main findings: (1) the costs of economic opportunity and defense spending; (2) the effects of nuclear-related crises on economic growth and FDI; (3) trade and regional economic cooperation; and (4) the relative economic performance of India and Pakistan in the post-nuclear era. To give a thorough grasp of the

economic effects of nuclearization in South Asia, the analysis combines information from government statistics, reports from international organizations, and analysis from the studied literature.

4.1- Defense Spending and Opportunity Costs

4.1.1- Rising Defense Budgets

Following their nuclear tests in 1998, both India and Pakistan have significantly increased defense expenditures. According to SIPRI (2023), India ranked third globally in military spending in 2022, with an estimated budget of $81.4 billion. Pakistan, while spending less in absolute terms, consistently allocates a higher percentage of its GDP to defense—about 3.7% in 2022 compared to India's 2.4%.

Table 1: Defense Spending (% of GDP), 1998–2022

Year	India (%)	Pakistan (%)
1998	2.3	4.0
2008	2.5	3.6
2018	2.4	3.5
2022	2.4	3.7

(*Source: SIPRI, World Bank*)

These trends reflect each country's continued investment in nuclear deterrent capabilities, such as ballistic missile development, submarine-launched systems, and early warning infrastructure.

4.1.2- Economic Trade-offs

Priorities for development suffer as a result of this large defense burden. Pakistan spent 1.2% of GDP on healthcare and 2.5% of GDP on education in 2021, which is significantly less than what is advised (World Bank, 2022). although its strategic goals, India, although having a stronger economy, is criticized for underinvesting on human development metrics. These opportunity costs are especially high for poor countries, since every rupee spent on defense lowers possible investment on infrastructure, education, and poverty alleviation (Bajpai, 2002). Thus, in both nations, the post-nuclear age has solidified a "guns over butter" policy trajectory.

4.2- Impact of Nuclear Crises on Economic Growth and Investment

4.2.1- Crisis Episodes and Market Reactions

The nuclearization of South Asia has not prevented military confrontations. Rather, it has led to an environment of "stability-instability," where full-scale war is avoided but limited conflicts persist (Ganguly & Kapur, 2010). Major crises such as:

- Kargil Conflict (1999)
- 2001–02 Twin Peaks Crisis
- 2016 Uri attack and surgical strikes
- 2019 Pulwama-Balakot standoff

have all triggered market instability, investor anxiety, and temporary halts in economic activity.

For instance, after the Pulwama attack in February 2019, the Indian rupee depreciated by nearly 1.5% in just three days, while Pakistan's stock exchange saw a drop of over 3% in a single week (Ahmed, 2020). FDI flows into both countries during crisis years show marked decline, suggesting that nuclear brinkmanship discourages sustained investor confidence.

Figure 1: FDI Inflows to India and Pakistan (US$ Billion), 1998–2022

(Insert line graph showing dip in FDI during major crisis years)

4.2.2- Investor Perceptions and Risk Premium

Due to political unrest and unsolved disputes, South Asia is rated as "high-risk" in a number of investment polls conducted by organisations like the World Economic Forum and the Economist Intelligence Unit. Nuclear capabilities increase the stakes of

regional conflicts rather than providing economic security. According to Ahmed (2020), Pakistan has more significant investment hurdles because of its greater reliance on defense, debt, and aid rather than trade-driven growth, whereas India has been more resilient because of its sizable domestic market.

4.3- Trade and Regional Economic Cooperation

4.3.1- SAARC and the Indo-Pakistani Stalemate

One of the world's least economically integrated regions is still South Asia. Compared to nearly 25% in ASEAN and 60% in the EU, intraregional commerce accounts for less than 5% of total trade (World Bank, 2021). For more than ten years, the South Asian Association for Regional Cooperation (SAARC) has been blocked by political animosity between India and Pakistan, which is made worse by their nuclear competition.

Strategic conflict and regional economic stagnation are closely related, as Dash (2008) observes: "Every time progress is made in SAARC negotiations, a border incident or militant attack sets everything back."

4.3.2- Missed Economic Opportunities

If normalized, bilateral commerce between India and Pakistan, which currently stands at about $2 billion per year, may reach $37 billion, according to World Bank estimates (World Bank, 2021). Normalized relations would be extremely beneficial for important industries including agriculture, medicines, and textiles. However, strategic mistrust has taken economic cooperation hostage due to the security paradigm, which is driven by nuclear deterrence.

4.4- Comparative Economic Trends in the Post-Nuclear Era

4.4.1- India's Divergent Path

India has done a better job of protecting its economy against shocks related to security. Even with a nuclear arsenal, it strengthened its global economic status after liberalisation in the 1990s, drew large FDI, and developed robust service and IT sectors. Despite several Indo-Pak crises, GDP growth averaged more than 6% per year between 2000 and 2015 (World Bank, 2022).

4.4.2- Pakistan's Economic Vulnerabilities

Pakistan, on the other hand, has seen stagnation in industrial growth, increasing external debt, and recurrent balance-of-payments crises. Defense and nuclear prestige are given priority in a military-dominated strategic culture, frequently at the expense of economic restraint (Fair, 2014). Money that could be used to promote productivity and human capital is diverted to defense spending and nuclear capability investments.

4.5- Key Findings

1. Nuclearization has entrenched high defense spending in both India and Pakistan, leading to reduced fiscal space for development sectors.
2. Frequent crisis episodes linked to nuclear rivalry depress investor confidence, contributing to economic volatility and currency instability.
3. Nuclear posturing has undermined regional economic institutions such as SAARC, stalling cooperation and reducing intra-regional trade potential.
4. India has managed economic growth better post-nuclearization, while Pakistan's economic trajectory remains hindered by militarization and conflict dynamics.

4- Recommendations

5.1- Rebalancing Defense and Development Priorities

The trade-offs that come with excessive defense spending need to be re-examined by both India and Pakistan. Despite the importance of national security, human growth shouldn't be sacrificed for it. Long-term stability and economic resilience can be achieved by progressively reallocating funds from military buildup to areas like infrastructure, healthcare, and education.

Policy recommendation: To guarantee a balanced civil-military budgetary process, both nations should implement parliamentary scrutiny and transparency regarding defense spending.

5.2- Strengthening Crisis Management Mechanisms

Institutionalizing conflict de-escalation measures is essential given the pattern of nuclear-related crises. Economic shocks linked to abrupt military escalations

can be avoided by the use of hotlines, backchannel diplomacy, and third-party mediation (where practical).
Policy recommendation: Resurrect the framework for the India-Pakistan Composite discussion, emphasizing both strategic discussion and economic confidence-building measures (CBMs).

5.3- Revitalizing Regional Economic Institutions

SAARC needs to be revived in order to end the trend of economic isolation and strategic impasse. Since economic interdependence can serve as a stabilizer, nations should, if feasible, disentangle commerce from security concerns.
Policy recommendation: Create a South Asian Economic Council under SAARC to oversee trade, investment, and development cooperation on its own, free from political impasse.

5.4- Promoting Bilateral Trade Normalization

Trade between India and Pakistan has a lot of unrealized potential that could lower prices and increase access to markets and goods for both countries' economy.
Policy recommendation: Regardless of political difficulties, resume trade negotiations on Most Favored Nation (MFN) designation and take into account restricted trade corridors (such as those through Wagah and Kartarpur) for necessities.

5.5- Leveraging International Institutions

Incentives for arms control and disarmament, such as trade benefits, preferential loans related to peace initiatives, or development-linked aid, should be promoted by international financial institutions and strategic forums like the UN, IMF, and World Bank.
Policy recommendation: To connect lower military tensions with financial aid packages, propose a South Asia Peace and Development Compact via global forums.

5.6- Areas for Further Research

Future studies could examine the following indirect economic effects on nearby South Asian nations like Bangladesh, Sri Lanka, and Nepal, in addition to the nuclear-armed states of India and Pakistan that have been the subject of this one.

- South Asia's nuclear and climate hazards and how they affect sustainable development.
- How China shapes South Asian economic relationships and nuclear strategies as a regional actor.

Conclusion

The 1998 overt nuclear tests by India and Pakistan signaled the nuclearization of South Asia, which has had a significant impact on the geopolitical stability and economic growth of the region. The economic aspects of this strategic shift were investigated in this paper, with particular attention paid to defense spending, instability brought on by crises, investment deterrents, and regional economic cooperation. According to research, nuclear deterrence has strengthened a cycle of high defense spending, strategic mistrust, and little regional integration, even though it may have helped avert full-scale conflicts. Significant resources have been redirected by both India and Pakistan to the upkeep and modernization of their nuclear arsenals. There is a substantial opportunity cost associated with these expenditures, especially for Pakistan, where defense spending frequently exceeds social sector investment. Furthermore, there have been other military crises in the post-nuclear era, including Kargil (1999), the Twin Peaks Crisis (2001–2002), and Balakot (2019), all of which have hampered economic growth, eroded investor confidence, and heightened regional hostility. The economic implications of strategic instability are reflected in the sensitivity of foreign direct investment (FDI) inflows to these times of war intensification. Furthermore, the establishment of efficient regional economic cooperation mechanisms has been impeded by nuclearization. Because of ongoing Indo-Pak tensions, SAARC, the key regional organization, is still mainly dormant. Because intra-regional trade makes up less than 5% of global trade, South Asia continues to be one of the least economically linked areas in the world. Additionally, a comparative study shows that India and Pakistan have responded differently to the economic effects of nuclearization. India has been able to pursue both economic modernization and military buildup, albeit with some trade-offs, thanks to its larger and more diverse economy. However, Pakistan is more economically constrained, and its security-focused

approach to policy has impeded long-term economic expansion. The study's overall conclusion is that, despite its stated goal of enhancing security, nuclearization has weakened investor confidence, redirected development resources, and caused regional economic stagnation, especially in Pakistan. The area runs the risk of continuing to be caught in a cycle where economic advancement is subordinated to geopolitical posturing unless there is a paradigm shift towards cooperative security and economic interdependence. Although nuclearization has had a significant impact on South Asia's security paradigm, its financial consequences are high and sometimes disregarded. Economic development must take precedence over strategic security, particularly in an area where unemployment, poverty, and inequality are still pervasive. The research's conclusions highlight the necessity of visionary leadership, collaborative communication, and economic pragmatism in order to guarantee that progress and peace, rather than rivalry and retreat, will define South Asia's future.

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