

Review Form1.7

JournalName:	JournalofAdvancesinMathematicsandComputerScience
ManuscriptNumber:	Ms_JAMCS_116836
TitleoftheManuscript:	DistributionofIntegersHavingaDivisorwithanOddSemi-prime
TypeoftheArticle	OriginalResearchArticle

Review Form1.7

PART1:ReviewComments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that a author should write his/her feedback here)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>somewhat</p> <p>yes</p> <p>somewhat</p> <p>somewhat</p> <p>yes</p> <p>somewhat</p> <p>There search paper appear to explore the distribution of integers having a divisor with an odd semi-prime number (a product of two distinct prime numbers). Here are my evaluations and comments on this research:</p>	
	<p>1. Proving that the integers having a divisor with a given odd semi-prime $N=pq$ are symmetrically distributed in the interval $[1, N - 1]$.</p> <p>2. Demonstrating that there exists a multiple of p lying adjacent to a multiple of q within the interval $[1, N - 1]$.</p> <p>3. Highlighting that the multiples of the divisor of a composite odd integer lie accumulatively in certain regions, despite being sparse in the overall interval.</p> <p>4. Suggesting that this distribution pattern of local accumulation with global sparsity can be beneficial in designing certain randomized algorithms to find a divisor of a composite odd integer, which is relevant to the problem of integer factorization.</p> <p>5. The conclusion reiterates the significance of the paper's findings, specifically the new symmetric characteristic of the distribution of the hosts of semiprime divisors. It also mentions the potential application of this distribution pattern in designing algorithms for finding divisors of composite integers, which could aid in solving the integer factorization problem.</p> <p>6. However, the conclusion acknowledges a limitation or "regret" mentioned in Remark 3.2,</p> <p>7. The abstract, introduction, must be rewritten, also conclusion must be written as well as a comparison between previous works related to the work and topic of the research, as well as using modern references</p> <p>8. The research needs more and new references</p> <p>Overall, the research seems to contribute to the understanding of the distribution of integers having divisors with odd semi-primes and suggests potential applications in algorithmic design for integer factorization.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>somewhat</p>	

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<p>Optional/Generalcomments</p>	<p>The research paper appears to explore the distribution of integers having a divisor with an odd semi-prime number (a product of two distinct prime numbers). Here are my evaluations and comments on this research:</p> <ol style="list-style-type: none"> 1. Proving that the integers having a divisor with a given odd semi-prime $N=pq$ are symmetrically distributed in the interval $[1, N - 1]$. 2. Demonstrating that there exists a multiple of p lying adjacent to a multiple of q within the interval $[1, N - 1]$. 3. Highlighting that the multiples of the divisors of a composite odd integer lie accumulatively in certain regions, despite being sparse in the overall interval. 4. Suggesting that this distribution pattern of local accumulation with global sparsity can be beneficial in designing certain randomized algorithms to find a divisor of a composite odd integer, which is relevant to the problem of integer factorization. 5. The conclusion reiterates the significance of the paper's findings, specifically the new symmetric characteristic of the distribution of the hosts of semi-prime divisors. It also mentions the potential application of this distribution pattern in designing algorithms for finding divisors of composite integers, which could aid in solving the integer factorization problem. 6. However, the conclusion acknowledges a limitation or "regret" mentioned in Remark 3.2. 7. The abstract, introduction, must be rewritten, also conclusion must be written as well as a comparison between previous works related to the work and topic of the research, as well as using modern references 8. The research needs more and new references <p>Overall, the research seems to contribute to the understanding of the distribution of integers having divisors with odd semi-primes and suggests potential applications in algorithmic design for integer factorization.</p>	
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PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

<p>Name:</p>	<p>Mohammed Aboud Kadhim</p>
<p>Department, University & Country</p>	<p>Middle Technical University, Iraq</p>