

← → Properties of Algorithms

The properties of algorithms are the fundamental characteristics that every good algorithm should have. These properties ensure that an algorithm is correct, efficient and practical.

Here are the main properties:

1) Input →

An algorithm must accept zero or more inputs.

- * Inputs should be clearly specified.
 Example :- Two numbers for addition.

2) output →

An algorithm must produce at least one output.

- * The result should be clearly defined.
 Example → The sum of two numbers.

3) Definiteness →

Each step must be clear and precisely defined.

- * No vague instructions.
- * Every instruction should have only one meaning.

5) Bias →

Algorithms can be biased if they are designed to favor certain outcomes or groups of people. This could lead to unfair or discriminatory results.

6) Security risks →

Algorithms can also pose security risks if they are not properly designed or implemented. For example, they could be vulnerable to hacking or other malicious attacks.

Overall, while algorithms offer many benefits, they also have some potential drawbacks that programmers need to consider when developing and using them. It's important to carefully consider the design, testing and implementation of an algorithm to minimize these potential issues.

1)

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2)

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3)

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