

Operators in C (S1)

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What is the output of the following C program fragment? Assume size of integer is **4 bytes**

```
//Problem 1.  
  
#include <stdio.h>  
  
int main(){  
  
    int i = 5;  
    int variable = sizeof(i++);  
  
    printf("%d, %d",i, variable);  
  
    return 0;  
}
```

Options:

- (a) 5, 4
- (b) 6, 4
- (c) 5, 5
- (d) 5, 8

According to the C99 standard:

Note: C standard is the language specification which is adopted by all C compilers across the world

The **sizeof** operator yields the size (in bytes) of its operand, which may be an expression or a parenthesized name of a type. The size is determined from the type of the operand. If the type of the operand is a **variable length array type**, then **the operand is evaluated**; otherwise, **the operand is not evaluated** and the result is an integer constant.

Therefore, **i++** inside **sizeof operator** is not evaluated and the correct answer to the problem is:

(c) 5, 4

This outline is based on C programming lectures by Neso Academy, visit the following video to learn more.

[Operators in C - Neso Academy](#)