



PROGRAMMING IN JAVA

Assignment 0

TYPE OF QUESTION: MCQ

Number of questions: 10

Total marks: 10 × 1 = 10

QUESTION 1:

What will be the output of the following code snippet?

```
#include <stdio.h>
void solve() {
    int a = 3;
    int res = a++ + ++a + a++ + ++a;
    printf("%d", res);
}
int main() {
    solve();
    return 0;
}
```

- a. 12
- b. 24
- c. 20
- d. 18

Correct Answer: c. 20

Detailed Solution:

In the given code snippet, the `solve()` function is called from the `main()` function. Inside the `solve()` function: `int a = 3;` initializes the variable `a` with the value 3. `int res = a++ + ++a + a++ + ++a;` performs a series of arithmetic operations and assigns the result to the variable `res`. `a++` is a post-increment operation, which means the value of `a` is used and then incremented by 1. So, initially, `a++` evaluates to 3, and `a` becomes 4. `++a` is a pre-increment operation, which means the value of `a` is incremented by 1 and then used. So, after the previous operation, `++a` evaluates to 5, and `a` becomes 5. `a++` is another post-increment operation. At this point, `a` is 5, and the expression evaluates to 5. Then, `a` becomes 6. `++a` is another pre-increment operation. After the previous operation, `++a` evaluates to 7, and `a` becomes 7. Therefore, the overall expression becomes `3 + 5 + 5 + 7`, which results in 20 and is stored in the variable `res`. `printf("%d", res);` prints the value of `res`, which is 20.

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