

Practice with if/else

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The program on this page uses nested conditional statements. Given the values of x and y as inputs, what does the program output?

- $x = 6; y = 3$; Output: _____
- $x = 4; y = 4$; Output: _____
- $x = 7; y = 7$; Output: _____
- $x = 3; y = 5$; Output: _____

```
#include <iostream>
using namespace std;
int main()
{
    int x, y;
    cout << "Enter two integers: ";
    cin >> x >> y;
    if(x > 4)
    {
        cout << "A";
        if(y > 3)
        {
            cout << "B";
        }
        else
        {
            cout << "C";
        }
    }
    else
    {
        if(y >= 5)
        {
            cout << "D";
        }
        cout << "E";
    }
    cout << "F";
}
```

This is a similar problem, but the program on this page uses a switch statement. Given the value of k as input, what does the program output?

- k = 2; Output: _____
- k = 3; Output: _____
- k = 4; Output: _____
- k = 5; Output: _____
- k = 6; Output: _____

```
#include <iostream>
using namespace std;
int main()
{
    int k;
    cout << "Enter an integer: ";
    cin >> k;
    switch(k) {
    case 4:
        cout << "A";
        break;
    case 3:
        cout << "B";
        break;
    case 5:
        cout << "C";
    default:
        cout << "D";
        if(k >= 6) {
            cout << "E";
        }
    }
    cout << "F";
    return 0;
}
```