Branch:

- 1. Write a C ++ condition to express the following
 - (a) y is odd but not 13
- (b) n is divisible by 7 or divisible by 5



2. Consider the following snippet of the code.

```
switch (x*3){
    case 9: cout <<"9,";
    default: cout <<"default,";
    case 6: cout <<"6,"; break;
    case 12: cout <<"12,";
}</pre>
```

What is the output when

- (a) x=6 \bigcirc "no thing will be printed" \bigcirc 9,default,6, \bigcirc default, \bigcirc 12, \bigcirc default,6 \bigcirc 12,default, (b) x=4 \bigcirc "no thing will be printed" \bigcirc 9,default,6, \bigcirc default, \bigcirc 12, \bigcirc default,6 \bigcirc 12,default,
- 3. Assuming $int \ x = 5$, what is the value of x after executing each of the following (each one should be run individually)?
 - (a) x + = 5 + -- x; $\bigcirc 12 \bigcirc 14 \bigcirc 13 \bigcirc 11$ (b) x = x * 5%3; $\bigcirc 10 \bigcirc 5 \bigcirc 1$
- (c) x = 5/x && x 10; $\bigcirc 1 \bigcirc 0 \bigcirc \text{True}$ $\bigcirc \text{False}$ (d) $x = x + + \%5 \parallel x - 5:$
- (d) $x = x ++ \%5 \parallel x 5;$ $\bigcirc 1 \bigcirc 0 \bigcirc \text{True} \bigcirc \text{False} \bigcirc 6$

4. What is the output of the following

```
int y = 10;
if (y++ > 6)
    if (y-- < 20)
        cout <<"This_group\t";
        cout <<"Perfect.";</pre>
```



5. Consider the forowing program

```
int y;
cin >> y;
if (y < 15) {
    if (y != 9)
        cout << "cond1";
    else
        --y;
} else {
    if (y == 21)
        y *= 2;
    else
        cout << "cond2";
}
cout << y << end1;</pre>
```

What will the program print if the user provides the following input?





