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Programming C++ I

Fall 2015

Nested Loops Written Assignment

**1. How many times is the cout statement executed in this program segment?**

for (int i = 0; i < 10; i++)

for (int j = 0; j < i; j++)

cout << i \* j << endl;

ANSWER: The cout is executed: ( i\*(i-1))/2 == 45 times

**Show the output of the following program segments:**

2. int i = 0;

while (i < 5)

{

for (int j = i; j > 1; j--)

cout << j << " ";

cout << "\*\*\*\*" << endl;

i++;

}



3. int i = 5;

while (i >= 1)

{

int num = 1;

for (int j = 1; j <= i; j++)

{

cout <<num << "xxx";

num \*= 2;

}

cout << endl;

i--;

}



4. int i = 1;

do {

int num = 1;

for (int j = 1; j <= i; j++)

{

cout << num << 'G';

num += 2;

}

cout << endl;

i++;

} while (i <= 5);



5. int x = 5;

char char1 = ' ';

char char2 = '\*';

for (int i = 1; i <= x; i++)

{

for (int q = x - i; q > 0; q--)

cout << char1;

for (int r = 1; r < 2 \* i; r++)

cout << char2;

cout << endl;

}

