**Exercises of lecture 2**

**Exercise 1:**

* What is the output for the following code lines if hours=35 and hours=60:

1. if (**hours <= 40**)

cout << “No overtime” << endl;

cout<<"You must work over 40 hours for overtime\n”; cout << “Continue” << endl;

1. if (**hours <= 40**)

{

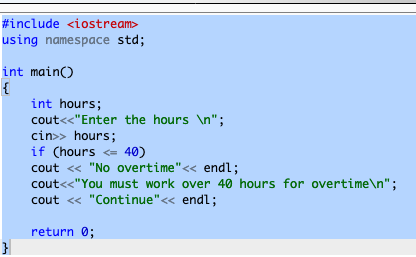
cout << “No overtime” << endl;

cout << "You must work over 40 hours for overtime.\n";

}

cout << “Continue” << endl;

**solution:**

****

**OUTPUT:**

* when hours is 35: when hours is 60:

Enter the hours

35

No overtime

You must work over 40 hours for overtime

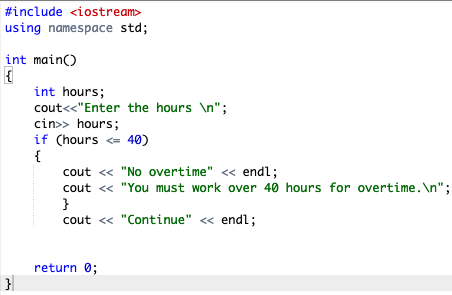
Continue

Enter the hours

60

You must work over 40 hours for overtime

Continue

****

**OUTPUT:**

* when hours is **35**: when hours is **60**:

Enter the hours

35

No overtime

You must work over 40 hours for overtime

Continue

Enter the hours

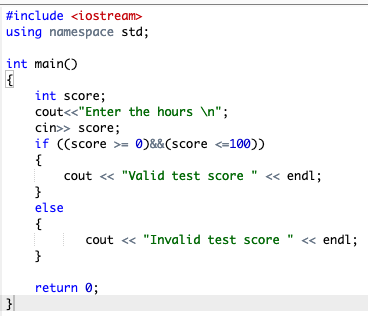
60

Continue

**Exercise 2:**

* Write a fragment of code that test whether an integer variable score contains a valid test score. Valid test scores are in the range from 0 to 100.

**Solution**:

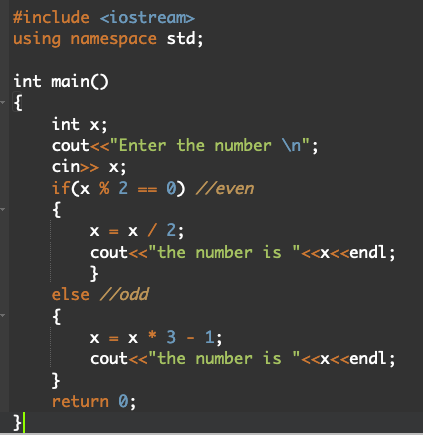


**Exercise 3:**

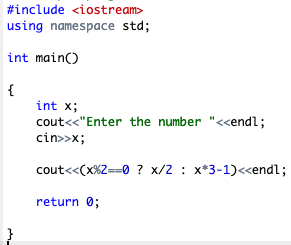
* Write a fragment of code that change an integer value stored in x as follows:

1. If x is even, divide x by 2.
2. If x is odd, multiply x by 3 and subtract 1.

**Solution**:



**OR**



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