Homework 2

What is the output of this code?

```cpp
int num   = 14 ;
switch (num % 7) {
  case 0:
    num --;
    break;

  case 1:
    num *= 2;
    break;
  case 2:
    num *=  2;
    break;
  case 4 :
    num -= 5;
  case 5:
    num++;
    break;
    default :
    num/=3;
}
cout<<num<<endl;
```
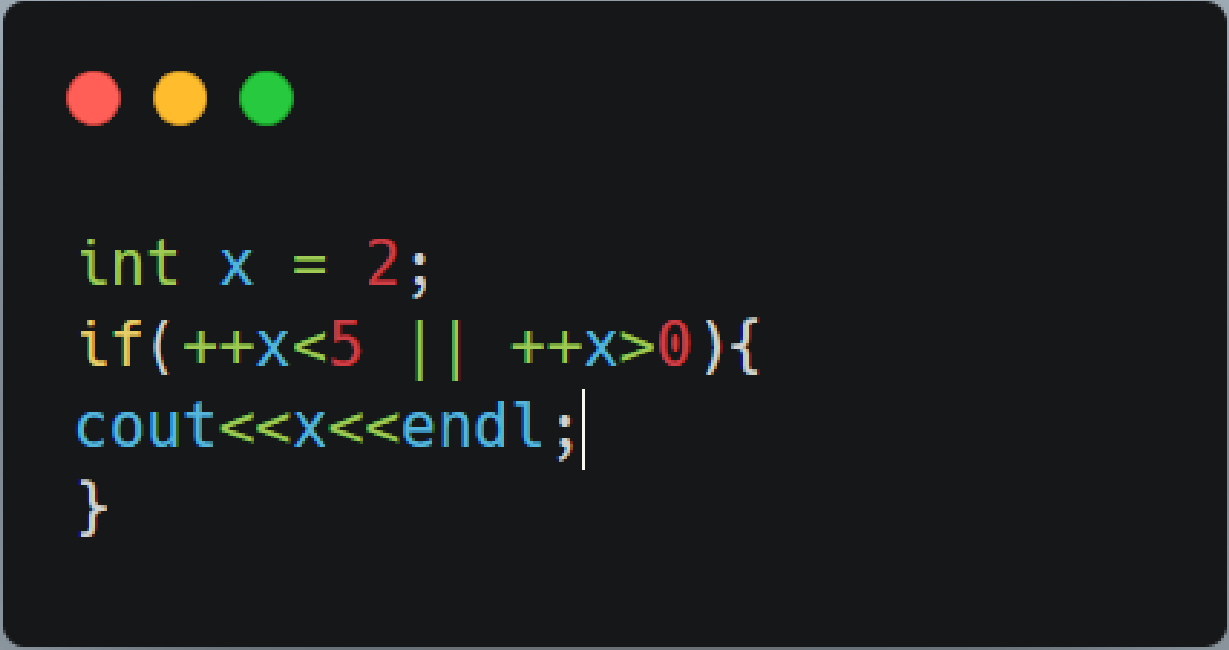
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What is the output of this code?

3

```cpp
int sum = 0;
for( int i=1 ; i <=10 ; i++){
if(i>=3)
break;
    sum+=i;
}
cout<<sum<<endl;
```

What is the output of this code?

3

```
int x = 2;
if(++x<5 || ++x>0){
cout<<x<<endl;
}
```

What is the output of this code?

```
int x = 4;
while (x++ <=10){
cout<<'*';
   x+=2;
}
cout<<x;
```

***14

What is the output of this code?

```
int count = 7;
while (count >= 4){
count --;
}
cout<< count;
```

3

1. Write a C++ program to calculate the age of the user.
Note : ask the user to enter the current date and his/her birthdate.

2. Write C++ code to check if the input number is prime number or not.
Note : prime number is the number that divide on it self and 1 only.

3. Write a C++ program to print the sum of all odd numbers and even numbers between 2 input numbers.

Input :
2 10
Output will be
The sum of odd = 3 + 5 + 7 +9
The sum of even = 2 + 4+ 6 +8 +10