

CIS 101 — Quiz 7

Problem 1. Write a C++ program that asks the user for two numbers x and y . Your program should compute the sum and output

- *greater than or equal to 0* if the sum is greater than or equal to 0
- *less than 0* if the sum is strictly less than 0

The syntax for the `cout` command is

```
cout << <variable> << <variable> << ...;
```

This command is used to output data to the screen.

The syntax for the `cin` command is

```
cin >> <variable>;
```

This command is used to input data from the user.

The syntax for the `if else` block is

```
if (<conditional expression>){  
    <commands>  
}  
else{  
    <commands>  
}
```

Don't forget to use `#include<iostream.h>` in the beginning and make sure you define variables before using them (i.e. `int x`);

```
void main(){  
    int x, y;  
    cin >> x; cin >> y;  
    if( (x + y) >= 0) {  
        cout << "greater than or equal to zero" <<endl;  
    }  
    else{  
        cout << "less than zero" << endl;  
    }  
}
```

Problem 2. Write a C++ program that outputs all even numbers in an array A . You can assume the array A has m numbers and is already defined in memory. The syntax for a for loop is

```
for (<starting condition>; <ending condition>; <increment>){  
    <commands>  
}
```

Use the mod operator `%` for testing if a number is even. $x \% y$ returns the remainder after dividing x with y . So if $(x\%2)$ is 0 then x is even, and odd otherwise.

```
for(int i=0; i<m; i=i+1){  
    if(A[i] % 2 == 0){  
        cout << A[i] << endl;  
    }  
}
```