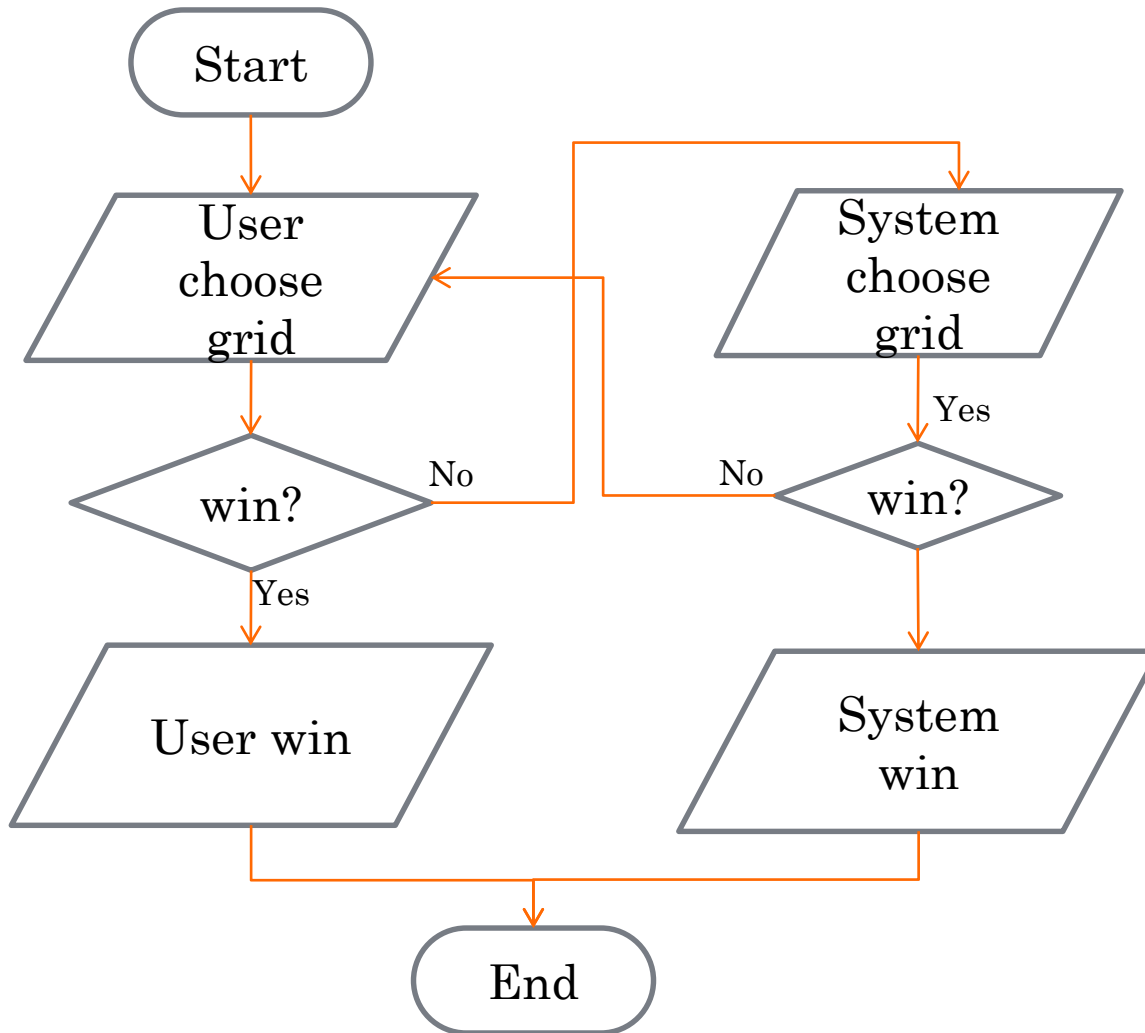# INTRODUCTION TO NOUGHTS AND CROSSES

- The object of Noughts and Crosses is to get a winning line of three Noughts or three Crosses in either a horizontal, vertical or diagonal row.

# FLOW CHART

# PARAMETERS PASSING
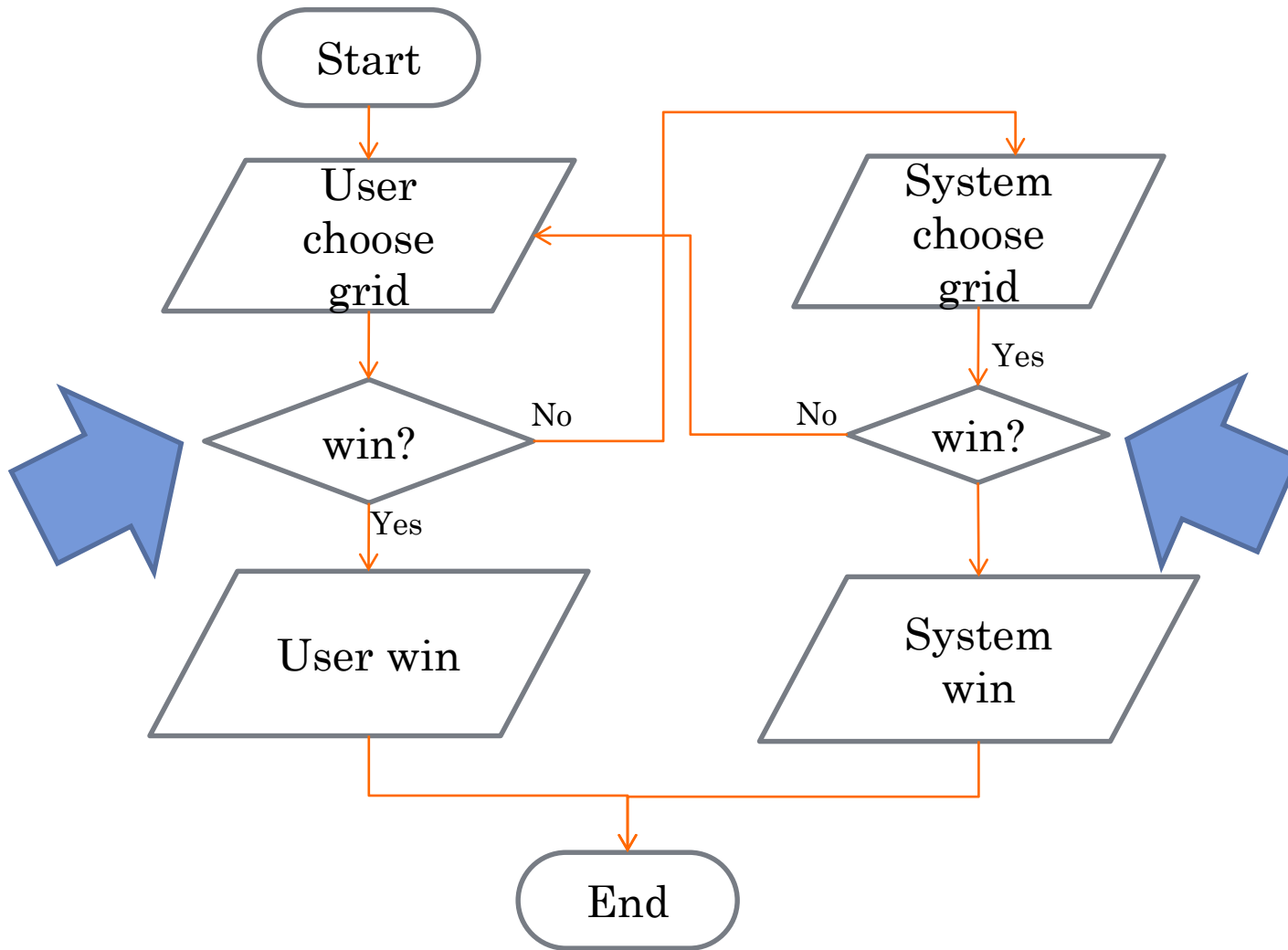
```cpp
#include<iostream>
using namespace std;
int test(int a[], int b)
{
    return a[0]+a[1]+a[2]+b;
}
void main()
{
    int array[3]={0,0,0};
    int b=3;
    int catch=test(array,b);
    cout<<catch;
    system("PAUSE");
}
```

Test function

# FLOW CHART

```
                    ┌──────────┐
                    │  Start   │
                    └──────────┘
                         │
                         ▼
   ┌──────────────┐              ┌──────────────┐
   │    User      │              │   System     │
   │   choose     │◄────         │   choose     │
   │    grid      │              │    grid      │
   └──────────────┘              └──────────────┘
         │                              │ Yes
         ▼                              ▼
      ╱──────╲                       ╱──────╲
     ╱  win?  ╲──No──      ──No──   ╱  win?  ╲
     ╲        ╱                     ╲        ╱
      ╲──────╱                       ╲──────╱
         │ Yes                          │
         ▼                              ▼
   ┌──────────────┐              ┌──────────────┐
   │   User win   │              │  System      │
   │              │              │   win        │
   └──────────────┘              └──────────────┘
         │                              │
         └──────────┐      ┌────────────┘
                    ▼
               ┌──────────┐
               │   End    │
               └──────────┘
```

# EXERCISE

```c
int check_win(int grid[])//X win(return 1)or O win(return 0) or not yet(return 2)
{
    //the size of grid is 9 (grid[0]~grid[8])
    //if value of grid[i] is 2, means that it draw nothing
    //if value of grid[i] is 0, means that it draw O
    //if value of grid[i] is 1, means that it draw X
    //now we only have grid[]
    //please check is any line has three O or three X
    //three O in one line, please return 0
    //three 1 in one line, please return 1
    //otherwise return 2(means no one win yet)
    /*please fill this area*/




    return 2;//this line doesn't matter, you can delete it!!!!!!
    /*end here*/
}
```