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Stone Scissors Or Paper

Code Id	45
Date Updated	11/7/2010
Title	Stone, Scissors or Paper

Description

```
In this game, the user and the computer choose each one an option between stone,s
 stone -> scissors -> paper -> stone...

The first who wins WINSCORE times is
the competition winner.
```

Codes Snippet

```cpp
// ****************************************
// Title:        "Stone, Scissors or Paper"
//
// Description:
//   In this game, the user and the computer
//   choose each one an option between stone,
//   scissors and paper.
//   Stone wins over scissors, scissors over
//   paper and paper over stone:
//     stone -> scissors -> paper -> stone...
//   The first who wins WINSCORE times is
//   the competition winner.
// ****************************************

#include
#include
#include

#define WINSCORE 3

// Function PickRandomOption
// * Returns a random character between 's', 'x', and 'p'
char PickRandomOption (void)
{
   char option;
   srand ( time (NULL) );      // (re)initialize random number generator
   int value = rand()%3;       // Generate random number between 0 and 2

   switch (value) {
      case 0: option='s'; break;
      case 1: option='x'; break;
      case 2: option='p'; break;
   }
   return option;
}

// Function WhoWins
// * check which of the characters passed wins.
// return values:
//   0= tie, 1=the first, 2=the second, -1=error
int WhoWins (char a, char b)
{
   switch (a)
   {
      case 's':
         if (b=='x') return 1;
         else if (b=='p') return 2;
         else return 0;
      case 'x':
         if (b=='p') return 1;
         else if (b=='s') return 2;
         else return 0;
      case 'p':
         if (b=='s') return 1;
         else if (b=='x') return 2;
```

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```
main ()
{
    char you, me;
    int mypoints=0;
    int yourpoints=0;
    int winner;

    do {
        //prompt user.
        cout << "nEnter s, x or p ";
        cout << "(s=stone, x=scissors, p=paper): ";
        cin >> you;

        //decide computer's option and say it
        me = PickRandomOption();
        cout << "I say: " << me << "n";

        // check who is the winner
        winner = WhoWins (you,me);

        // show appropiate message:
        if (winner==0) cout << "Tiedn";
        else if (winner==1) { cout << "You winn"; yourpoints++; }
        else if (winner==2) { cout << "I winn"; mypoints++; }
        else cout << "Sorry. You entered an Invalid optionn";

        // show current scoreboard.
        cout << "POINTS: You:" << yourpoints;
        cout << " Me:" << mypoints << "n";

    } while (yourpointsmypoints) cout << "You win the competition!n";
    else cout << "I win the competition!n";
    return 0;
}
```

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