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// RollADice_With_Procedures.cpp
   RollADice (no procedures or functions)
//
//
// Problem
// Roll two dice and print the values with the highest first.
// And output what dice roll won.
// Created by Ian Grant on 26/02/2018.
#include <iostream> // std::iostream
#include <time.h>
#include <ctime>
#include <stdlib.h>
#include <sstream>
using namespace std;
// initialise variables
int roll1;
int roll2;
stringstream sstm;
```

```
int rollADice () {
    int roll = rand()% 6 + 1;
    return roll;
}
string orderDice (int roll1, int roll2) {
    string result ="";
    if (roll1 > roll2) {
        sstm <<"Dice Result (highest first): " << roll1 << " then " <<</pre>
         roll2 << "\nDice roll 1 wins\n";</pre>
        result = sstm.str();
    } else if (roll1 < roll2) {</pre>
        sstm << "Dice Result (highest first): " << roll2 << " then " <<</pre>
         roll1 << "\nDice roll 2 wins\n";
        result = sstm.str();
    } else {
        sstm << "The dice rolls were equal: " << roll1 << " then " <<</pre>
         roll2 << ".\n" ;
        result = sstm.str();
    return result;
```

```
string outputThrow () {
    string result = "";
    roll1 = rollADice();
    roll2 = rollADice();
    result = orderDice(roll1, roll2);
    return result;
}
int main() {
    srand(time(0)); // this only needs to be called once and once only!
    string result = "";
    result = outputThrow();
    cout << result << endl;</pre>
    return 0;
```