

```
//  main.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 <string>
#include <ctime>
#include <time.h>
#include <stdlib.h>
```

```
using namespace std;
```

```
int roll1;
int roll2;
int randomNumber;
```

```
int main() {

    srand(time(0));
    randomNumber = rand()% 6 +1;

    // Randomise the dice numbers for roll 1 and 2
    roll1 = randomNumber = rand()% 6 +1;
    roll2 = randomNumber = rand()% 6 +1;

    if (roll1 > roll2) {
        cout << "Dice Result (highest first): " << roll1 << " then " <<
            roll2 << endl;
        cout << "Dice roll 1 wins" << endl;
    } else if (roll1 < roll2) {
        cout << "Dice Result (highest first): " << roll2 << " then " <<
            roll1 << endl;
        cout << "Dice roll 2 wins" << endl;
    } else {
        cout << "The dice rolls were equal: " << roll1 << " then " <<
            roll2 << endl;
    }
    return 0;
}
```