

The screenshot shows the Eclipse IDE interface. The top toolbar contains various icons for file operations, editing, and running. Below the toolbar, the Project Explorer on the left shows a project named 'H34086149\_hw6\_1' with several source files. The main editor window displays the source code for 'H34086149\_hw6\_1.cpp'. The code includes a header section with version and copyright information, followed by a function 'qualityPoints' that takes a grade and returns a quality score. The 'main' function prompts the user to input a grade and then displays the quality score. The bottom of the IDE features a Console window showing the program's output.

```
1 // Header section: my HW6
2 // File Name      : H34086149_hw6_1.cpp
3 // Author         : H34086149
4 // Version        : 1.0
5 // Copyright      : Your copyright notice
6 // Description    : 5.32
7 //=====
8
9 #include <iostream>
10 using namespace std;
11
12 int qualityPoints(const int &grade)
13 {
14     if(grade < 60)
15         return 0;
16     if(grade < 70)
17         return 1;
18     if(grade < 80)
19         return 2;
20     if(grade < 90)
21         return 3;
22     if(grade <= 100)
23         return 4;
24     cout << "The grade should not be greater than 100\n";
25     return -1;
26 }
27
28 int main() {
29     int grade;
30     cout << "Please input the student's grade\n";
31     cin >> grade;
32     cout << "The quality of the grade is " << qualityPoints(grade) << '\n';
33     return 0;
34 }
35
```

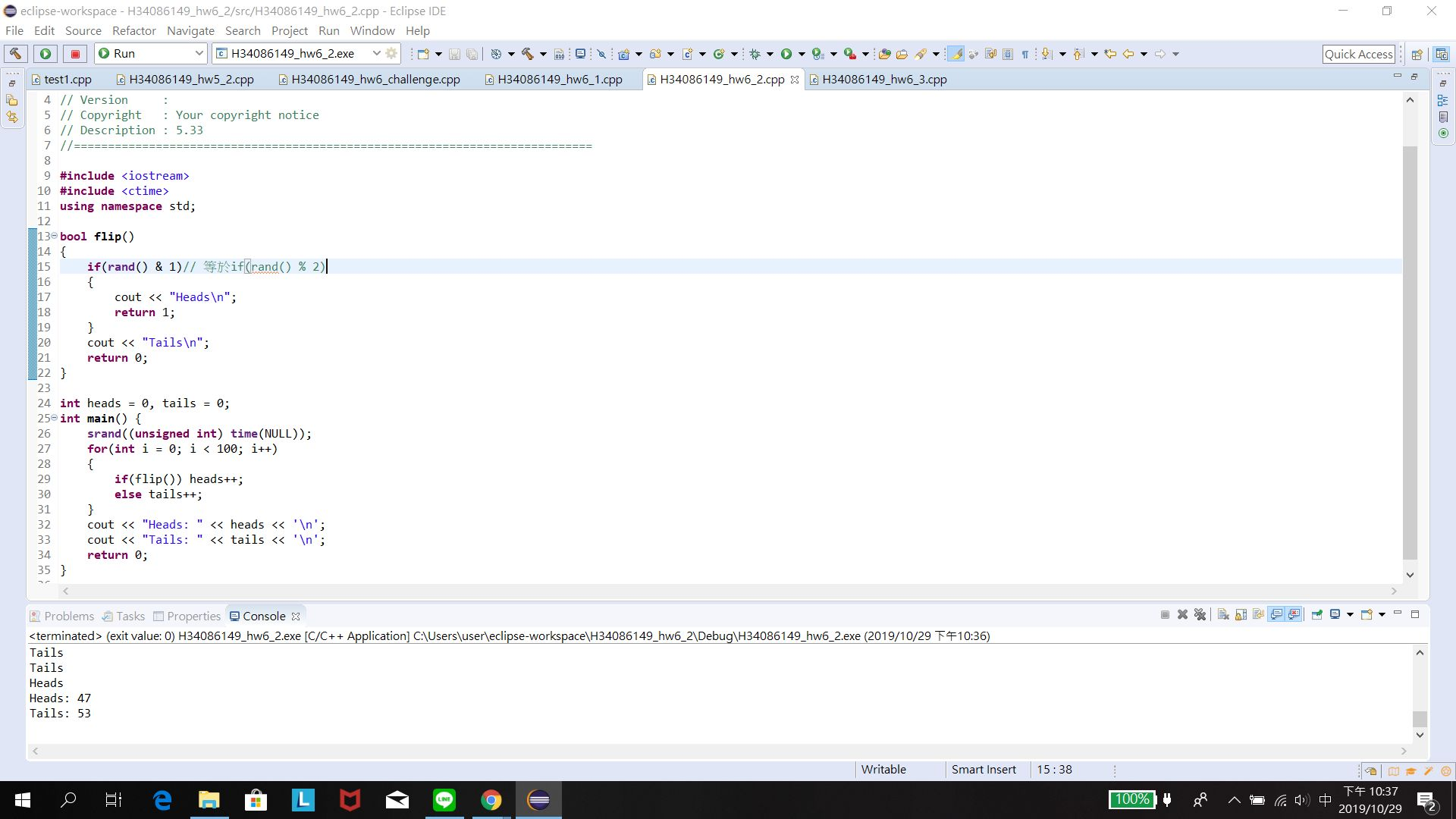
Problems Tasks Properties Console

<terminated> (exit value: 0) H34086149\_hw6\_1.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149\_hw6\_1\Debug\H34086149\_hw6\_1.exe (2019/10/29 下午10:33)

Please input the student's grade

62

The quality of the grade is 1



```
9 #include <iostream>
10 #include <ctime>
11 using namespace std;
12
13 int ans, guess;
14 char playAgain;
15
16 int main() {
17     srand((unsigned int) time(NULL));
18     do
19     {
20         ans = rand() % 1000 + 1;
21         cout << "I have a number between 1 and 1000.\n";
22         cout << "Can you guess my number?\n";
23         cout << "Please type your first guess.\n";
24         while(cin >> guess)
25         {
26             if(guess > ans)
27                 cout << "Too high. Try again.\n";
28             else if(guess < ans)
29                 cout << "Too low. Try again.\n";
30             else
31             {
32                 cout << "Excellent! You guessed the number!\n";
33                 cout << "would you like to play again (y or n)?\n";
34                 cin >> playAgain;
35                 break;
36             }
37         }
38     }while(playAgain == 'y');
39     return 0;
40 }
```

H34086149\_hw6\_3.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149\_hw6\_3\Debug\H34086149\_hw6\_3.exe (2019/10/29 下午10:37)

```
396
Too high. Try again.
392
Excellent! You guessed the number!
would you like to play again (y or n)?
```

```
17
18 int main() {
19     //ios::sync_with_stdio(false);
20     //cin.tie(0);
21     cout << "Please input a number\n";
22     cin >> num;
23     backtracking(num,1);
24     return 0;
25 }
26
27 void backtracking(const int num,const int min) // min用來保證數字由小到大 避免重複組合
28 {
29     for(int i = min; i < num; i++)
30     {
31         v.push_back(i);
32         backtracking(num - i, i);
33         v.pop_back();
34     }
35     if(num >= min)
36     {
37         v.push_back(num);
38         PrintAns();
39         v.pop_back();
40     }
41 }
42
43 void PrintAns()
44 {
45     for(auto i : v) cout << i << ' ';
46     cout << '\n';
47 }
48
```

<terminated> (exit value: 0) H34086149\_hw6\_challenge.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149\_hw6\_challenge\Debug\H34086149\_hw6\_challenge.exe (2019/10/29 下午10:40)

Please input a number

```
4
1 1 1 1
1 1 2
1 3
2 2
4
```