

# "For" Loop

```
1  #include <iostream>
2  #include <string>
3  using namespace std;
4  int main(){
5      int group, i;
6      float grade, average;
7      float totalGrade = 0;
8      string name;
9      cout << "Enter the amount of students. (0 to 10) ";
10     cin >> group;
11     try{
12         if((group <= 0) || (group > 10)){
13             throw "Student count can't be lower than 1 or larger than 10!";
14         }
15         cout << "-----\n";
16         for(i = 1; i <= group; i++){
17             cout << "Student #" << i << ":\n";
18             cout << "Enter the student's name. ";
19             cin >> name;
20             cout << "Enter " << name << "'s final grade. ";
21             cin >> grade;
22             if(grade < 0){
23                 throw "Negative grades are not permitted!";
24             }
25             totalGrade += grade;
26             cout << "-----\n";
27         }
28         average = totalGrade/group;
29         cout << "The total average grade of this group is " << average;
30     }
31     catch(const char* error){
32         cout << "ERROR: " << error;
33     }
34 }
```

Enter the amount of students. (0 to 10) 11

ERROR: Student count can't be lower than 1 or larger than 10!

Enter the amount of students. (0 to 10) 10

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Student #1:

Enter the student's name. 42vm1d

Enter 42vm1d's final grade. -41.51

ERROR: Negative grades are not permitted!

Enter the amount of students. (0 to 10) 4

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Student #1:

Enter the student's name. vc2iv1

Enter vc2iv1's final grade. 98.68

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Student #2:

Enter the student's name. co2cvm

Enter co2cvm's final grade. 89.67

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Student #3:

Enter the student's name. g92c1o

Enter g92c1o's final grade. 89.84

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Student #4:

Enter the student's name. u1v013

Enter u1v013's final grade. 76.17

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The total average grade of this group is 88.59