

Answer to Question #52414- Programming, C++

Question

Write a C++ program that reads 40 student scores (each between 0 and 20) into an array, and then prints out the distribution of the scores, i.e., it prints, for each possible score, the number of students who got that score.

Answer

```
#include <iostream>
using namespace std;

int main()
{
    int a[40],score[20]={0};
    for (int i=0;i<40;i++)
    {
        cout<<"Student "<<i+1<<" score is ";
        cin>>a[i];
        if (a[i]<20 | a[i]>40)
        {
            cout<<"mistaken score"<<endl;
            i--;
        }
    }

    for (int i=0; i<40; i++)

        score[a[i]-20]++;

    for (int i=0;i<20;i++)
    {
        cout<<<<score[i]<<" students have "<<i+20<<endl;
    }
}
```