

## Answer to Question #52415 - Programming, C++

### Question

Write a C++ program that takes an array of integers  $a$  and its length  $n$  as parameters and return back the number of pairs of elements that are multiple of each other.

### Answer

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

int main()
{
    int n,a[n],c=0;
    cout<<"write down the number of elements n = ";
    cin>>n;

    cout<<"A["<<n<<"]:";
    for (int i=0;i<n;i++)
    {
        cin>>a[i];
    }
    cout<<endl;
    cout<<"A = {";
    for (int i=0;i<n;i++)
    {
        cout<<" "<<a[i];
    }cout<<" }"<<endl;

    for (int i=0;i<n;i++)
        for (int j=i+1;j<n;j++)
        {
            if ((a[i]%a[j]==0) || (a[j]%a[i]==0))
                c++;
        }
    cout<<"the number of pairs is "<<c;
}
```