Divisible Sum Pairs

Editorial by wanbo

We can check every pair, one by one, and use $(a_i + a_j)\ \%\ k == 0$ to check if the pair is valid.

Set by wanbo

Problem Setter's code:

C++

```
#include <bits/stdc++.h>
using namespace std;

int n, k;
int a[N];

int main() {
        cin >> n >> k;
        for(int i = 0; i < n; i++) cin >> a[i];

        int res = 0;
        for(int i = 0; i < n; i++)
                for(int j = i + 1; j < n; j++)
                        if((a[i] + a[j]) % k == 0) res++;
        cout << res << endl;
        return 0;
}
```

Tested by shashank21j

Problem Tester's code:

Python 2

```
n, k = map(int,raw_input().split())
arr = map(int,raw_input().split())
count = 0
for i in range(0, n):
    for j in range(i+1, n):
        if (arr[i] + arr[j]) % k == 0:
            count += 1
print count
```

STATISTICS

Difficulty: Easy
Time Complexity: $\mathcal{O}(n^2)$
Required Knowledge: Loops
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