/\* divisible sub array problem using pigeonhole principle

array contain n elements[a1,a2,a3,...,an]

find how many good sub arrays

good sub array==[(ai)+(ai+1)+(ai+2)+... +(ak)]should be divisible by n

\*/

#include<bits/stdc++.h>

using namespace std;

#define ll long long int

ll a[1000005],pre[1000005];

int main()

{

ll t;

cin>>t;

while(t--)

{

ll n;

cin>>n;

memset(pre,0,sizeof(pre));

pre[0]=1;

ll sum=0;

for(ll i=0;i<n;i++)

{

cin>>a[i];

sum=sum+a[i];

sum=sum%n;

sum=(sum+n)%n;

pre[sum]++;

}

ll ans=0;

for(ll i=0;i<n;i++)

{

ll m=pre[i];

ans=ans+(m)\*(m-1)/2; //nc2

}

cout<<ans<<"\n";

}

}