

```
#include<bits/stdc++.h>
using namespace std;
typedef long long ll;
const int N=(1<<21);
ll a[N];
int n;
int main()
{
    scanf("%d",&n);
    for(int i=0;i<n;i++)
        scanf("%lld",&a[i]);
    for(int i=1,p=0;i<n;i<=1)
    {
        p++;
        for(int j=0;j<n;j++)
            if((j&(1<<p-1)))
                a[j]+=a[(j^(1<<p-1))];
    }
    for(int i=0;i<n;i++)
        printf("%lld\n",a[i]);
    return 0;
}
```

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