

```
#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);int p=0;
    for(int i=0;i<n;i++) scanf("%lld",&a[i]);
    for(int i=1;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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