

[back](#)

```
#include<bits/stdc++.h>
using namespace std;
const int N=500005;
typedef long long ll;
ll tr[N*4],a[N];
inline int ls(int o){
    return o<<1;
}
inline int rs(int o){
    return o<<1|1;
}
void push_up(int o){
    tr[o]=tr[ls(o)]+tr[rs(o)];
}
void build(int o,int l,int r){
    if(l==r){
        tr[o]=a[l];
        return;
    }
    int mid=l+r>>1;
    build(ls(o),l,mid);
    build(rs(o),mid+1,r);
    push_up(o);
}
void xg(int o,int pos,int l,int r,ll k,int op){
    if(l==r){
        if(op==1) tr[o]+=k;
        else tr[o]=k;
        return;
    }
    int mid=l+r>>1;
    if(pos<=mid) xg(ls(o),pos,l,mid,k,op);
    else xg(rs(o),pos,mid+1,r,k,op);
    push_up(o);
}
ll cx(int o,int nl,int nr,int l,int r){
    if(nl<=l&&r<=nr) return tr[o];
    int mid=l+r>>1;
    ll ret=0;
    if(nl<=mid) ret+=cx(ls(o),nl,nr,l,mid);
    if(nr>mid) ret+=cx(rs(o),nl,nr,mid+1,r);
    return ret;
}
int main(){
    int n,m;
    scanf("%d %d",&n,&m);
    for(int i=1;i<=n;i++){
        scanf("%d",&a[i]);
    }
}
```

```
}
build(1,1,n);
for(int i=1;i<=m;i++){
    int op;
    scanf("%d",&op);
    if(op==1||op==3){
        int pos;
        ll k;
        scanf("%d %lld",&pos,&k);
        xg(1,pos,1,n,k,op);
    }
    else{
        int l,r;
        scanf("%d %d",&l,&r);
        printf("%lld\n",cx(1,l,r,1,n));
    }
}
return 0;
}
```

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Last update: **2020/05/07 11:10**