

```
1: #include<iostream>
2: #include<vector>
3: #include<queue>
4: #define ll long long int
5: #define rep(n) for(int i=0;i<n;i++)
6:
7: int main()
8: {
9:     //(1)
10:    std::priority_queue< std::pair<ll,ll> > pq;
11:    int n,m;
12:    std::cin>>n>>m;
13:    std::vector<ll> a(n);
14:    rep(n)
15:    {
16:        std::cin>>a[i];
17:    }
18:    std::vector<ll> b(n);
19:    rep(n)
20:    {
21:        std::cin>>b[i];
22:    }
23:    rep(n)
24:    {
25:        //(2)
26:        a[i]*=-1;
27:        b[i]*=-1;
28:        std::pair<ll,ll> p=std::make_pair(a[i],b[i]);
29:        pq.push(p);
30:    }
31:    //(3)
32:    ll ans=0;
33:    while(true)
34:    {
35:        //(4)
36:        std::pair<ll,ll> p;
37:        p=pq.top();
38:        if(m>p.first*-1)
39:        {
40:            pq.pop();
41:            m+=p.first;
42:            p.first+=p.second;
43:            pq.push(p);
44:            ans++;
45:        }
46:        else
47:        {
48:            break;
49:        }
50:    }
51:    std::cout<<ans<<std::endl;
52: }
```