```
#include <iostream>
using namespace std;
int main()
    int n;
    float prft=0;
    float W;
    float p=0;
    cout << "Enter the value of n : ";</pre>
    cin >> n;
    float profit[n];
    float weight[n];
    float p_w[n];
    float x[n];
    cout << "\nEnter the weight a bag can hold : ";</pre>
    cin >> W;
    int wt=W;
    for (int i=0;i<n;i++)</pre>
         x[i]=0;
    cout << "Enter profits : ";</pre>
    for (int i=0;i<n;i++)</pre>
        cin >> profit[i];
    cout << "Enter weights : ";</pre>
    for (int i=0;i<n;i++)</pre>
         cin >> weight[i];
    for (int i=0;i<n;i++)</pre>
         p w[i]=profit[i]/weight[i];
    for (int i=0;i<n;i++)</pre>
         for (int j=0; j<n-i-1; j++)</pre>
             if(p_w[j] < p_w[j+1])
                  float temp=p_w[j];
                  p_w[j] = p_w[j+1];
                  p_w[j+1] = temp;
                  float temp2=weight[j];
                  weight[j]=weight[j+1];
                  weight[j+1]=temp2;
                  float temp3=profit[j];
                  profit[j]=profit[j+1];
                  profit[j+1]=temp3;
```

for (int i=0; i<n; i++)</pre>

if((wt-weight[i])>=0)

wt=wt-weight[i];
p=p+weight[i];
x[i]=x[i]+1;

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else
              {
                  x[i] = (W-p) / weight[i];
                  wt=wt-weight[i]*x[i];
                  p=p+weight[i]*x[i];
     cout << endl;</pre>
     cout << "Profit : " ;</pre>
     for (int i=0; i<n; i++)</pre>
        cout << profit[i] << "\t";</pre>
     cout << endl << "Weight : ";</pre>
     for (int i=0; i<n; i++)</pre>
        cout << weight[i] << "\t";</pre>
     cout << endl << "Count : ";</pre>
     for (int i=0; i<n; i++)</pre>
        cout << x[i] << "\t";</pre>
     for (int i=0; i<n; i++)</pre>
        prft =prft + (profit[i] *x[i]);
     cout << endl;</pre>
     cout << "Profit : " << prft << endl;</pre>
    return 0;
}
```