Greedy Knapsack

Student name:	I51496
Student email / username :	2103a51496@sru.edu.in
Class name:	III_DAA_I_23-24
Submitted on:	Aug 18, 2023 03:26 pm
Earned Score:	Pending
Earned Marks:	Pending

solution.c #include struct item{ int wt,pf, ino; float pwr,x; **}**; void knapsack(struct item a[],int n,int m){ // implimenting knapscack float tp = 0; int i,j; for(i=0;i0){ if(a[i].wt <= m){ a[i].x = 1.0;printf("%d ", a[i].wt); m -= a[i].wt; tp += a[i].pf; } else break; } } if(m>0){ a[i].x = m/((float)a[i].wt);printf("%.2f",(a[i].wt * a[i].x)); m = 0; tp += (a[i].x * a[i].pf); printf("\n%.2f",tp); } void sort(struct item a[], int n){ int i,j; struct item temp; for(i=1;i=0;j--){ // sorting according to profit by weight ratio if(a[j].pwr < temp.pwr)</pre> a[j+1] = a[j];else break; a[j+1] = temp;

about:blank

1/2

```
8/18/23, 3:27 PM
 }
 void main(){
     int i,j,m,n;
scanf("%d",&m);
     scanf("%d",&n);
     struct item a[n];
     for(i=0;i
 Name
 Test Case 1
 Input
 20 5
 6 20 6 30 4 20 10 24 2 16
 Output (Lines: 2)
 2 6 4 6 2.00
 90.80
 Expected Output (Lines: 2)
 2 6 4 6 2.00
 90.80
 Status
 Pass
```

about:blank 2/2