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| --- | --- | --- | --- | --- |
| struct Item {benefit or b, weight or w, value or v, identifier}  Item S[]  cin >> S[i].benefit or cin >> S[i].b  cin >> S[i].weight or cin >> S[i].w  S[i].value = S[i].benefit/S[i].weight  Or  S[i].v = S[i].b/S[i].w  cin >> W  Sort S by value or v in descending order  w = 0  Item results[]  int ammount\_taken[]  while w<W:  item = S[0]  remove S[0]  x = min(item.weight, W-w)  ammount\_taken.add(x)  w += x  results.add(item) | **Item Name** | **Benefit/b** | **Weight/w** | **Value/v** |
| Khashi leg roast & Polaw | 250 BDT | 1 Pac | 250 BDT/Pac |
| Chicken Biriyani | 960 BDT | 8 Pac | 120 BDT/Pac |
| Kacchi Biriyani | 360 BDT | 2 Pac | 180 BDT/Pac |
| Dim Khichuri | 320 BDT | 4 Pac | 80 BDT/Pac |
| Beef Tehari | 840 BDT | 6 Pac | 140 BDT/Pac |
| W = 10  w = 0  wi = 1, W-w = 10-0=10 → min(wi, W-w) = min(1,10) = 1, w = 0+1 = 1  wi = 2, W-w = 10-1=9 → min(wi, W-w) = min(2,9) = 2, w = 1+2 = 3  wi = 6, W-w = 10-3=7 → min(wi, W-w) = min(6,7) = 6, w = 3+6 = 9  wi = 8, W-w = 10-9=1 → min(wi, W-w) = min(8,1) = 1, w = 9+1 = 10 | | | |