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Start here KNAPSACK(DYNAMIC PROGRAMMING).c

```
1 #include<stdio.h>
2 int max(int a, int b) { return (a > b)? a : b; }
3 int knapSack(int W, int wt[], int val[], int n)
4 {
5     int i, w;
6     int K[n+1][W+1];
7     for (i = 0; i <= n; i++)
8     {
9         for (w = 0; w <= W; w++)
10        {
11            if (i==0 || w==0)
12                K[i][w] = 0;
13            else if (wt[i-1] <= w)
14                K[i][w] = max(val[i-1] + K[i-1][w-wt[i-1]], K[i-1][w]);
15            else
16                K[i][w] = K[i-1][w];
17        }
18    }
19    return K[n][W];
20 }
21 int main()
22 {
23     int i, n, val[20], wt[20], W;
24
25     printf("Enter number of items:");
26     scanf("%d", &n);
27
28     printf("Enter value and weight of items:\n");
29     for(i = 0; i < n; ++i){
30         scanf("%d%d", &val[i], &wt[i]);
31     }
32
33     printf("Enter size of knapsack:");
34     scanf("%d", &W);
35
36     printf("%d", knapSack(W, wt, val, n));
37     return 0;
38 }
39
```

```
"C:\web developement(html.css.js)\KNAPSACK(DYNAMIC PROGRAMMING).exe"
Enter number of items:2
Enter value and weight of items:
22 45
11 56
Enter size of knapsack:22
0
Process returned 0 (0x0)   execution time : 14.953 s
Press any key to continue.
```