

FileEditSelectionViewGoRunTerminalHelp

Knapsack_Using_Top_Down_3.cpp - Knapsack - Visual Studio Code

PROBLEMSOUTPUTJUPYTERTERMINALDEBUG CONSOLE

Code + -

1

5

2

2

```
If there's 1 item
Then max profit can be :20
Item 1 | Included | weight 1 |Value 20
Item 2 | Not included
Item 3 | Not included
Item 4 | Not included
Item 5 | Not included
Item 6 | Not included
Space left in knapsack :9

If there's 2 item
Then max profit can be :25
Item 1 | Included | weight 1 |Value 20
Item 2 | Included | weight 2 |Value 5
Item 3 | Not included
Item 4 | Not included
Item 5 | Not included
Item 6 | Not included
Space left in knapsack :7

If there's 3 item
Then max profit can be :35
Item 1 | Included | weight 1 |Value 20
Item 2 | Included | weight 2 |Value 5
Item 3 | Included | weight 3 |Value 10
Item 4 | Not included
Item 5 | Not included
Item 6 | Not included
Space left in knapsack :4

If there's 4 item
Then max profit can be :60
Item 1 | Included | weight 1 |Value 20
Item 2 | Not included
Item 3 | Not included
Item 4 | Included | weight 8 |Value 40
Item 5 | Not included
Item 6 | Not included
Space left in knapsack :1

If there's 5 item
Then max profit can be :60
```

Ln 115, Col 16 Spaces: 4 UTF-8 CRLF C++ Go Live windows-gcc-x64 Prettier

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Code + -

1

2

Space left in knapsack :4

If there's 4 item
Then max profit can be :60
Item 1 | Included | weight 1 |Value 20
Item 2 | Not included
Item 3 | Not included
Item 4 | Included | weight 8 |Value 40
Item 5 | Not included
Item 6 | Not included
Space left in knapsack :1

If there's 5 item
Then max profit can be :60
Item 1 | Included | weight 1 |Value 20
Item 2 | Not included
Item 3 | Not included
Item 4 | Included | weight 8 |Value 40
Item 5 | Not included
Item 6 | Not included
Space left in knapsack :1

If there's 6 item
Then max profit can be :60
Item 1 | Included | weight 1 |Value 20
Item 2 | Not included
Item 3 | Not included
Item 4 | Included | weight 8 |Value 40
Item 5 | Not included
Item 6 | Not included
Space left in knapsack :1

-----Top-Down DP Matrix-----

0	0	0	0	0	0	0	0	0	0	0
0	20	20	20	20	20	20	20	20	20	20
0	20	20	25	25	25	25	25	25	25	25
0	20	20	25	30	30	35	35	35	35	35
0	20	20	25	30	30	35	35	40	60	60
0	20	20	25	30	30	35	35	40	60	60
0	20	20	25	30	45	45	50	55	60	60

MaxProfit can be 60

master*

Run Testcases

0 0 0

Select folder.

Live Share

Ln 115, Col 16

Spaces: 4

UTF-8

CRLF

C++

Go Live

windows-gcc-x64

Prettier