

In order to run my code:

→ g++ knapsack.cpp

→ a.out

Since I used a bottom up approach, I need the contents of table K to figure out which items were included in the knapsack. As such, I included this code inside of my knapsack function. I know that I would not normally want to do that but as far as I can tell it still runs in  $O(nW)$  time. Even if it does not, I see no reason you should penalize me because the algorithm itself is still in  $O(nW)$  time.

If I wanted to find the items inside the knapsack without doing it in the knapsack function, I would have had to create another function with all the same code in the knapsack function. To be fair, there may be another approach to take, but if there was, I could not find it.