

At this point, your grid should look like this.

	1	2	3	4
GUITAR	\$1500 G	\$1500 G	\$1500 G	\$1500 G
STEREO				
LAPTOP				

Remember, you're trying to maximize the value of the knapsack.

*This row represents the current best guess for this max.* So right now, according to this row, if you had a knapsack of capacity 4 lb, the max value you could put in there would be \$1,500.

	1	2	3	4
GUITAR	\$1500 G	\$1500 G	\$1500 G	\$1500 G
STEREO				
LAPTOP				

← OUR CURRENT  
BEST GUESS  
FOR WHAT THE  
THIEF SHOULD STEAL:  
THE GUITAR  
FOR \$1500

You know that's not the final solution. As we go through the algorithm, you'll refine your estimate.

### The stereo row

Let's do the next row. This one is for the stereo. Now that you're on the second row, you can steal the stereo or the guitar. At every row, you can steal the item at that row or the items in the rows above it. So you can't choose to steal the laptop right now, but you can steal the stereo and/or the guitar. Let's start with the first cell, a knapsack of capacity 1 lb. The current max value you can fit into a knapsack of 1 lb is \$1,500.

	1	2	3	4
GUITAR	\$1500 G	\$1500 G	\$1500 G	\$1500 G
STEREO				
LAPTOP				

CURRENT  
MAX FOR  
A 1lb  
KNAPSACK

NEW MAX  
FOR A  
1lb KNAPSACK