

Those 3 lb are worth \$2,000! \$2,000 from the iPhone + \$2,000 from the old subproblem: that's \$4,000. A new max!

Here's the new final grid.

\$1500 G	\$1500 G	\$1500 G	\$1500 G
\$1500 G	\$1500 G	\$1500 G	\$3000 S
\$1500 G	\$1500 G	\$2000 L	\$3500 LG
\$3500 I	\$3500 IG	\$3500 IG	\$4000 IL

↑
NEW
ANSWER

Question: Would the value of a column ever go *down*? Is this possible?

	1	2	3	4
	\$1500	\$1500	\$1500	\$1500
MAX VALUE DECREASED AS WE WENT ON ↓	∅	∅	∅	\$3000

Think of an answer before reading on.

Answer: No. At every iteration, you're storing the current max estimate. The estimate can never get worse than it was before!

EXERCISE

9.1 Suppose you can steal another item: an MP3 player. It weighs 1 lb and is worth \$1,000. Should you steal it?