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You are taking "Midterm Exam" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

End My Exam

2:49:20

Course > Week 6... > Midter... > Proble...

Problem 1

Question 1.

35/35 points (graded)

You work at U.D. Parcel, a company based in Rhode Island. Suppose you have a set of 12 boxes with different weights. You want to ship these boxes from your warehouse in Pennsylvania to a local DC in Florida.

Unfortunately, there is only one truck available so not all boxes may be able to be shipped. The payload capacity (i.e., the carrying capacity) of this truck is **6.5 tons**. Each box you are able to ship yields a different profit. Your goal is to maximize your total profit.

Box#	1	2	3	4	5	6	7	8	9	10	11	12
Weight (tons)	1. 3	1.2	1.0	1.6	1. 5	1.1	0. 9	0.8	0. 7	0. 5	1.4	0.6
Profit (\$)	8 0	13 0	14 0	12 0	90	16 0	70	11 0	50	60	10 0	15 0

Given the truck's payload capacity, what is the maximum profit that you can make?



Submit

You have used 1 of 2 attempts

✓ Correct (35/35 points)

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