



Goal

Programming is good, but cooking is even better. Tired of leaving your favorite canteens still hungry, you decided to set up a restaurant with an all-you-can-eat buffet concept. As you see big, you decide to offer "group discounts":

- 10% off the bill for groups of at least 4 people
- 20% off the bill for groups of at least 6 people
- 30% off the bill for groups of 10 or more people

For your business plan, you want to estimate the amount of sales based on the price per person and the configuration of the tables served.

Data

Input

Row 1: an integer between 20 and 40 corresponding to the buffet price per person.

Row 2: an integer N between 5 and 50 corresponding to the number of tables served.

Row 3 to $N + 2$: an integer between 2 and 15 representing the number of people present at a table.

Output

An integer representing the amount of restaurant sales rounded up.

You can download sample input and output data files to work locally by clicking on the link at the bottom of the French version of the question



Téléchargez des fichiers d'exemple ainsi qu'un modèle de code pour travailler localement.