


Assignment Case	
COMP6047 Algorithm and Programming	
Computer Science	<Case Code>
<i>Valid on Compact Semester Year 2018/2019</i>	Revision 00

Soal*Case***Changes Please!**

Jojo is quite a spender. He never bothers much about change until one day, he went to buy some goods in a shop but didn't receive any change since he paid with a huge sum of money. Since that incident, he always plans ahead what kind of goods that he would bought. He also foresees the most possible combination of changes given to him, supposed he gives N bucks to the seller. Your task as the programmer is to determine how many minimum changes are given by seller, given the fact that the seller only give changes in fraction of 50, 20, 10, 5, 2, and 1.

Format Input

The first line consist of a single integer N. N indicates the number of test cases.

For each test case, there will be three lines of input. The first line consists of an integer K where K indicates the number of goods bought. The second line consists of K integers A_i indicates the price of each goods. The third line consists of an integer P indicates total money he had already paid.

Format Output

For each test case, output the answer with format "Case #T : B", where T is the number of test cases and B is the minimum total of changes given to Jojo. If Jojo pays less than needed, print "REPAY"

Constraints

$$1 \leq N \leq 100$$

$$1 \leq K \leq 1000$$

$$1 \leq A \leq 1000$$

$$1 \leq B \leq 10^6$$

Sample Input	Sample Output
2 4 10 70 3 2 100 6 6 6 6 6 6 6 30	Case #1 : 2 Case #2 : REPAY

Explanation :

Test Case 1:

10 70 3 2 → 85 total expense

100 → total paid

15 → changes

minimum possible change

2→10 5