**Mia and the Breakfast Diner**

Mia is working as a waitress a breakfast diner. She can take up only one shift from 6 shifts a day i.e. from 10 am to 4 pm. She needs to save 300 $ after completion of the month. She works only for D days in the month. She estimates that she gets her highest tip in the first shift and the tip starts decreasing by 2% every hour as the day prolongs. She gets a minimum wage of X $ for every shift. And her highest tip in the first shift is Y $. Determine if Mia will be able to save 300 $ from her wages and tips after working D days of the month. If she can, print YES, else print NO.

Input:

First line has three parameters D, X and Y i.e. number of days worked, minimum wage and highest tip.

Second line contains D integers indicating her shifts every *i* th day she has worked.

Output:

Print YES, if Mia has saved 300$, NO otherwise.

Constraints:

8 <= D <=30

7 <= X <=30

4 <= Y <= 20

Sample Test Case 1:

Input:

10 20 10

1 1 1 1 1 1 1 1 1 1

Output:

YES

Explanation:

Number of days Mia worked (D) = 10

Minimum wage for shift is (X) = 20 $

Highest tip at first shift is (Y) = 10 $

She has taken first shift on all 10 days, so wages = 10 \* 20 $ = 200 $

Tips she received (every day she took first shift so, no deduction) = 10 \* 10 = 100 $

Wages + Tips = 200 + 100 = 300 $

Prints YES as Mia was able to save 300 $

Sample Test Case 2:

Input:

9 17 5

1 3 2 4 5 6 1 2 2

Output:

NO

Number of days Mia worked (D) =9

Minimum wage she earns (X) = 17 $

Highest tip at first hour (Y) = 5 $

1st day she took--1st shift

2nd day she took—3rd shift and so on

Upon calculation we will find that Mia was not able to save 300 $