

Codu And Sum Love

Problem Description

...

```
Scanner sc = new Scanner(System.in);

long sum = 0;

int N = sc.nextInt();

for (int i = 0; i < N; i++) {

    final long x = sc.nextLong(); // read input

    String str = Long.toString((long) Math.pow(1 << 1, x));

    str = str.length() > 2 ? str.substring(str.length() - 2) : str;

    sum += Integer.parseInt(str);

}

System.out.println(sum%100);

...
```

Given N number of x's, perform logic equivalent of the above Java code and print the output

Constraints

$1 \leq N \leq 10^7$ $0 \leq x \leq 10^{18}$

Input Format

First line contains an integer N

Second line will contain N numbers delimited by space

Output

Number that is the output of the given code by taking inputs as specified above

Explanation

Example 1

```
Input
4 8 6 7 4
Output
64
```

Example 2

Input

3

1 2 3

Output

14