Quick Quiz!

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*Allocated Time: **30** minutes*
*Solve **2** out of **3** questions*

1 Warm Up

1.1 Print Function

Read an integer N (use `raw_input()` command). **Without using any string methods**, try to print the following:

$$12...N$$

Note that "..." represents the values in between.

1.1.1 Input Format

The first line contains an integer N.

1.1.2 Output Format

Output the answer as explained in the task.

1.1.3 Sample Input

```
3
```

1.1.4 Sample Output

```
123
```

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2 Even Fibonacci Generator

Each new term in the Fibonacci sequence is generated by adding the previous two terms. By starting with 1 and 1, the first 12 terms will be:

$$1, 1, \mathbf{2}, 3, 5, \mathbf{8}, 13, 21, \mathbf{34}, 55, 89, \mathbf{144}, ...$$

2.1 `yield` **the value**

write a generator which yields a sequence of even numbers.

```
def fibeven():
    # complete this part

gen = fibeven()
for i in gen:
    if i > 150:
        break
    else:
        print i
```

expected result would be: `>python > 2 > 8 > 34 > 144 >`

2.2 Ain't Cool Enough?

By considering the terms in the Fibonacci sequence whose values do not exceed N, find the sum of the even-valued terms.

2.2.1 Input Format

First line contains T that denotes the number of test cases. This is followed by T lines, each containing an integer, N.

2.2.2 Output Format

Print the required answer for each test case.

2.2.3 Sample Input

```
2
10
100
```

2.2.4 Sample Output

```
10
44
```

2.2.5 Explanation

- For $N = 10$, we have $\{2, 8\}$, sum is 10.
- For $N = 100$, we have $\{2, 8, 34\}$, sum is 44.

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3   Validating Phone Numbers

A valid mobile number is a ten digit number starting with a 7, 8 or 9. In another hand, people use to write phone numbers in different styles:

```
88889900
888-899-00
888 899000
8888 9900
8888-9900
```

3.1   Now What?

use python's regular expression (`re`) library to `findall()` valid phone numbers in a given text.

3.1.1   Input Format

a text file, all characters are supposed to be in ASCII format.

3.1.2   Output Format

Output the answer as explained in the task.

3.1.3   Sample Input

```
Contact info:
Phone number: 8912 2134
Fax: 8912 2100
Email: whatever@blaah.com
```

3.1.4   Sample Output

```
8912 2134
8912 2100
```