2.1.2 Last Digit of Fibonacci Number

Last Digit of Fibonacci Number Problem
Compute the last digit of the n-th Fibonacci number.

Input: An integer n.
Output: The last digit of the n-th Fibonacci number.

$F_{100} = 354\,224\,848\,179\,261\,915\,075$

Input format. An integer n.

Output format. The last digit of F_n.

Constraints. $0 \le n \le 10^6$.

Sample 1.

Input:

```
3
```

Output:

```
2
```

$F_3 = 2$.

Sample 2.

Input:

```
139
```

Output:

```
1
```

$F_{139} = 50\,095\,301\,248\,058\,391\,139\,327\,916\,261$.

Sample 3.

Input:

```
91239
```

Output:

```
6
```

$F_{91\,239}$ will take more than ten pages to write down, but its last digit is 6.