Given N, print the largest number that can be achieved by taking gcd (greatest common divisor) of any two i and j where $i \neq j$ and $1 \leq i, j \leq N$.

Input

First line of input will contain the number of test cases, $T \leq 2000$. Then T cases follow. For each case, there is a line containing one integer N where $2 \leq N \leq 10^{18}$.

Output

For each case, print one line containing a single integer which is the largest gcd of all pairs of numbers between 1 to N.

Output Explanation
   In the second case the GCD table is:

	1	2	3	4	5
1	-	-	-	-	-
2	1	-	-	-	-
3	1	1	-	-	-
4	1	**2**	1	-	-
5	1	1	1	1	-

   Here the largest gcd of all pairs of numbers between 1 to 5 is 2.

Sample Input

```
2
2
5
```

Sample Output

```
1
2
```