```
> ptime:=time():n:=10;nextprime(10^n);time()-ptime;
```

$$n := 10$$

$$10000000019$$

$$.051$$

```
> ptime:=time():n:=20;nextprime(10^n);time()-ptime;
```

$$n := 20$$

$$100000000000000000039$$

$$.039$$

```
> ptime:=time():n:=30;nextprime(10^n);time()-ptime;
```

$$n := 30$$

$$1000000000000000000000000000057$$

$$.131$$

```
> ptime:=time():n:=40;nextprime(10^n);time()-ptime;
```

$$n := 40$$

$$10000000000000000000000000000000000000121$$

$$.340$$

```
> ptime:=time():n:=50;nextprime(10^n);time()-ptime;
```

$$n := 50$$

$$100000000000000000000000000000000000000000000000151$$

$$.719$$

```
> ptime:=time():n:=60;nextprime(10^n);time()-ptime;
```

$$n := 60$$

$$1000000000000000000000000000000000000000000000000000000000007$$

$$.211$$

```
> ptime:=time():n:=70;nextprime(10^n);time()-ptime;
```

$$n := 70$$

$$10000000000000000000000000000000000000000000000000000000000000000000033$$

$$.599$$

```
> ptime:=time():n:=80;nextprime(10^n);time()-ptime;
```

$$n := 80$$

$$100000000000000000000000000000000000000000000000000000000000000000000000000\backslash$$
$$000129$$

$$1.941$$

```
> ptime:=time():n:=90;nextprime(10^n);time()-ptime;
```

$$n := 90$$

$$1000000000000000000000000000000000000000000000000000000000000000000000000000\backslash$$
$$0000000000000289$$

$$4.430$$

```
> ptime:=time():n:=100;nextprime(10^n);time()-ptime;
```

$$n := 100$$

$$10000000000000000000000000000000000000000000000000000000000000000000000000000\backslash$$
$$00000000000000000000000267$$

$$5.630$$

```
> n:=10;m:=nextprime(10^(n/2))*nextprime(2*10^(n/2));ptime:=time()
  :ifactor(m);time()-ptime;
```

$$n := 10$$

$$m := 20000900009$$

$$(200003)\ (100003)$$

$$.340$$

```
> n:=20;m:=nextprime(10^(n/2))*nextprime(2*10^(n/2));ptime:=time()
  :ifactor(m);time()-ptime;
```

$$n := 20$$

$$m := 200000001270000001691$$

$$(20000000089)\ (10000000019)$$

$$2.121$$

```
> n:=30;m:=nextprime(10^(n/2))*nextprime(2*10^(n/2));ptime:=time()
  :ifactor(m);time()-ptime;
```

$$n := 30$$

$$m := 2000000000000095000000000000777$$

$$(2000000000000021)\ (1000000000000037)$$

$$130.310$$