

Output:

success output:

```
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: Y

Guess 1 /40 : 1023
How many correct digits?2
How many exact digits?1

Guess 1 /40 : 1 correct : 2 exact : 1
Guess 2 /40 : 1245
How many correct digits?3
How many exact digits?0

Guess 1 /40 : 1 correct : 2 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 0
Guess 3 /40 : 2054
How many correct digits?2
How many exact digits?1

Guess 1 /40 : 1 correct : 2 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 0
Guess 3 /40 : 2 correct : 2 exact : 1
Guess 4 /40 : 4153
How many correct digits?2
How many exact digits?1

Guess 1 /40 : 1 correct : 2 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 0
Guess 3 /40 : 2 correct : 2 exact : 1
Guess 4 /40 : 4 correct : 2 exact : 1
Guess 5 /40 : 6124
How many correct digits?3
How many exact digits?3

Guess 1 /40 : 1 correct : 2 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 0
Guess 3 /40 : 2 correct : 2 exact : 1
Guess 4 /40 : 4 correct : 2 exact : 1
Guess 5 /40 : 6 correct : 3 exact : 3
```

```
How many correct digits?3
How many exact digits?3

Guess 1 /40 : 1 correct : 2 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 0
Guess 3 /40 : 2 correct : 2 exact : 1
Guess 4 /40 : 4 correct : 2 exact : 1
Guess 5 /40 : 6 correct : 3 exact : 3
Guess 6 /40 : 7 correct : 3 exact : 3
Guess 7 /40 : 8124
How many correct digits?4
How many exact digits?4

Congratulations!!Start a new game (y/n)?
```

Inconsistent response:

```
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: Y

Guess 1 /40 : 1023
How many correct digits?3
How many exact digits?1

Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1204
How many correct digits?1
How many exact digits?1
Inconsistent response

How many correct digits?1
How many exact digits?1
Inconsistent response

How many correct digits?1
How many exact digits?1
Inconsistent response

How many correct digits?
```

Wrong input:

```
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: hi
Please enter 'N' or 'Y'
Do you want to play the game or not N/Y: 0.1
Please enter 'N' or 'Y'
Do you want to play the game or not N/Y: 11
Please enter 'N' or 'Y'
Do you want to play the game or not N/Y: Y

Guess 1 /40 : 1023
How many correct digits?
```

```
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: Y

Guess 1 /40 : 1023
How many correct digits?hi
It must be a positive integer

How many correct digits?-2
It must be a positive integer

How many correct digits?0.2
It must be a positive integer

How many correct digits?5
The number should no more than 4

How many correct digits?$$
It must be a positive integer

How many correct digits?0

Guess 1 /40 : 1 correct : 0 exact : 0
Guess 2 /40 : 4567
How many correct digits?
```

This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: Y

Guess 1 /40 : 1023
How many correct digits?3
How many exact digits?5
Exact digits should be no more than 3

How many exact digits?4
Exact digits should be no more than 3

How many exact digits?-1
It must be a positive integer

How many exact digits?0.2
It must be a positive integer

How many exact digits?\$\$
It must be a positive integer

How many exact digits?hi
It must be a positive integer

How many exact digits?

```
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: Y

Guess 1 /40 : 1023
How many correct digits?3
How many exact digits?1

Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1204
How many correct digits?1
How many exact digits?1
Inconsistent response

How many correct digits?3
How many exact digits?3

Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 3
Guess 3 /40 : 1205
How many correct digits?2
How many exact digits?2

Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 3
Guess 3 /40 : 1 correct : 2 exact : 2
Guess 4 /40 : 1234
How many correct digits?4
How many exact digits?4

Congratulations!!Start a new game (y/n)?abc
Please enter 'n' or 'y'
Congratulations!!Start a new game (y/n)?y
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y:
```

Pause:

```
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: Y
```

```
Guess 1 /40 : 1023
How many correct digits?3
How many exact digits?1
```

```
Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1204
How many correct digits?3
How many exact digits?3
```

```
Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 3
Guess 3 /40 : 1205
How many correct digits?2
How many exact digits?2
```

```
Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 3
Guess 3 /40 : 1 correct : 2 exact : 2
Guess 4 /40 : 1234
How many correct digits?4
How many exact digits?4
```

```
Congratulations!!Start a new game (y/n)?n
The game is over
```

```
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: N
```

```
The game is over
```

```
This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: Y
```

```
Guess 1 /40 : 1023
How many correct digits?3
How many exact digits?X
The game is over
```

```
Start a new game (y/n)?n
The game is over
```

This is the guessing game of 4-digit numbers.
Please choose a 4-digit secret number with no repeated digits.
Please press 'X' if you want to end the program.
Do you want to play the game or not N/Y: Y

Guess 1 /40 : 1023
How many correct digits?3
How many exact digits?1

Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1204
How many correct digits?3
How many exact digits?3

Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 3
Guess 3 /40 : 1205
How many correct digits?2
How many exact digits?2

Guess 1 /40 : 1 correct : 3 exact : 1
Guess 2 /40 : 1 correct : 3 exact : 3
Guess 3 /40 : 1 correct : 2 exact : 2
Guess 4 /40 : 1234
How many correct digits?4
How many exact digits?4

Congratulations!!Start a new game (y/n)?n
The game is over