



# Exceptions ★

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## Exceptions

Errors detected during execution are called exceptions.

### Examples:

#### ZeroDivisionError

This error is raised when the second argument of a division or modulo operation is zero.

```
>>> a = '1'
>>> b = '0'
>>> print int(a) / int(b)
>>> ZeroDivisionError: integer division or modulo by zero
```

#### ValueError

This error is raised when a built-in operation or function receives an argument that has the right type but an inappropriate value.

```
>>> a = '1'
>>> b = '#'
>>> print int(a) / int(b)
>>> ValueError: invalid literal for int() with base 10: '#'
```

To learn more about different built-in exceptions [click here](#).

## Handling Exceptions

The statements try and except can be used to handle selected exceptions. A try statement may have more than one except clause to specify handlers for different exceptions.

```
#Code
try:
    print 1/0
except ZeroDivisionError as e:
    print "Error Code:",e
```

### Output

Error Code: integer division or modulo by zero

### Task

You are given two values **a** and **b**.

Perform integer division and print **a/b**.

### Input Format

The first line contains  $T$ , the number of test cases.

The next  $T$  lines each contain the space separated values of  $a$  and  $b$ .

### Constraints

- $0 < T < 10$

### Output Format

Print the value of  $a/b$ .

In the case of ZeroDivisionError or ValueError, print the error code.

### Sample Input

```
3
1 0
2 $
3 1
```

### Sample Output

```
Error Code: integer division or modulo by zero
Error Code: invalid literal for int() with base 10: '$'
3
```

### Note:

For integer division in **Python 3** use `//`.

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Python 3



```
1 def try_divisions(data):
2     for d in data:
3         value_1 = d[0]
4         value_2 = d[1]
5
6         try:
7             print(int(value_1) // int(value_2))
8         except (ZeroDivisionError, ValueError) as e:
9             print('Error Code:', e)
10
11 if __name__ == '__main__':
12     t = int(input())
13     data = []
14     for _ in range(t):
15         values = input().split()
16         data.append(values)
17
18     try_divisions(data)
19
```

Line: 7 Col: 48

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Run Code

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Test case 0

Test case 1

Test case 2

Compiler Message

Success

Input (stdin)

```
1 3
2 1 0
3 2 $
4 3 1
```

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Expected Output

```
1 Error Code: integer division or modulo by zero
2 Error Code: invalid literal for int() with base 10: '$'
3 3
```

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