X

![swayam logo](https://swayam.gov.in) **(https://swayam.gov.in)** ⚛ *(https://swayam.gov.in/nc_details/NPTEL)*

vp2749@srmist.edu.in ⌄

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » **Programming in C++ (course)**

Announcements (announcements)   **About the Course (preview)**   Ask a Question (forum)

Progress (student/home)   Mentor (student/mentor)

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

○ Module 36 : Exceptions (Error Handling in C) : Part I (Lecture 52) (unit? unit=89&lesson=90)

W8_Programming-Qs4

Due on 2020-11-12, 23:59 IST

Consider the following program. Fill in the blanks at `LINE-1` to create user-defined exception `DivideByZeroException`. Fill in the banks at `LINE-2` and `LINE-3` to throw the appropriate exceptions so that it satisfies the given test cases.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	10 0 0	cannot divide by 0\n	cannot divide by 0\n	Pas sed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-11-12, 23:44 IST

Your last recorded submission was :

```
1  #include <iostream>
2  #include <exception>
3  using namespace std;
4
5  // declare a user-defined exception
6  class DivideByZeroException : public exception { // LINE-1
7  public:
8      virtual const char* what() const throw();
9  };
10
11 void divide(int i, int j) {
12     try {
13         if (j == 0)
14             // throw the exception object
15             throw DivideByZeroException(); // LINE-2
16         else if (i == 0)
17                 throw 0; // LINE-3
18         else
```

```cpp
19          cout << (double)i / j;
20      }
21      catch (int& e) {
22          cout << "result is always: " << e;
23      }
24      catch (DivideByZeroException e) {
25          cout << e.what() << endl;
26      }
27  }
28
29  const char* DivideByZeroException::what() const throw() {
30      return "cannot divide by 0";
31  }
32
33  int main() {
34      int i, j;
35      cin >> i >> j;
36
37      divide(i, j);
38
39      return 0;
40  }
```

○ Feedback For
Week 8 (unit?
unit=89&lesson=96)

**DOWNLOAD
VIDEOS**

Text Transcripts

**Assignment
Solution**

Books

**Live Interactive
Session**

**Programming Test
(11th Dec):
Session-1
(10.00AM -
11.00AM)**

**Programming Test
(11th Dec):
Session-2 (8.00PM
- 9.00PM)**