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Work with your neighbor.

1. Add try and except statements to handle an exception that may occur.

```
def foo():
    n = int(input("Enter a number:"))
    print("n = ", n)
    print("reciprocal = ", str(1/n))
```

2. Read the following code:

```
def fun1(x):
    return 1/x

def fun2(x):
    return 1 + fun1(x)

def main():
    z = fun2(3)
    print(z)
    z = fun2(0)
    print(z)
main()
```

- (1) Circle the line that generates the exception error.
- (2) Modify the code to catch the exception in fun2().
- (3) In which function does the error occur?
- (4) Which function catches the error after (2)?

(5) Modify the code to catch the exception in main()

(6) After (5) replaces (2), in which function does the error occur, and which function catches the error?

3. In this code snipet, args is a Python list and my dict is a dicionary:

```
index = int(input('Index: '))  # line 1
num1 = args[index]  # line 2
sum = num1 + index  # line 3
value = sum/index  # line 4
my_dict[index] = value  # line 5
```

(a) Name four different exceptions that can give occur in the code fragment shown. In each case, give the line number where the exception can arise.

