

Lecture 23 Exercises

CS 51P – Fall 2022

1. Write a function `return_int` that asks the user to enter an integer. If the user enters an integer, the function returns that integer. If the user does not enter an integer, the function returns

2. Consider the following code.

```
def f(x,y):
    try:
        try:
            for i in x:
                print(int(i))
            print(x[y])
        except ValueError:
            print(1)
        except TypeError:
            print(2)
        except IndexError:
            print(3)
        else:
            print(4)
        print(5)
    except:
        print(6)
```

What gets printed when you call `f("abc","a")`?

What gets printed when you call `f([1,2,3],4)`?

What gets printed when you call `f({"1":"2"},1)`?

3. Write a function `always_return_int` that repeatedly asks the user to enter an integer. Once the user enters an integer the function returns that integer.
 4. Write a function `return_int_onetry` that asks the user to enter an integer. If the user enters an integer, the function returns that integer. If the user does not enter an integer, the function raises a `ValueError`.
 5. Write a function `return_pos_int_onetry` that asks the user to enter an positive integer. If the user enters a positive integer, the function returns that integer. If the user does not enter an integer, the function raises a `ValueError`.