

# Python Exam Cheatsheet — 20606

Anastasia Zarankin & Yehonatan Simian

## 1 Allowed Functions

### 1.1 Built-in Functions

- abs
- float
- input
- int
- isinstance
- len
- list
- max
- min
- pow
- print
- range
- sorted
- str
- sum
- tuple

### 1.2 String Methods

- slicing
- in
- +

### 1.3 List Methods

- slicing
- +
- pop
- append
- in
- sort
- copy

### 1.4 Examples

```
1 print(abs(-5))           # Output: 5
2 print(float(5))          # Output: 5.0
3 user_input = input("Enter something: ") # Waits for user input
4 print(int("5"))          # Output: 5
5 print(isinstance(5, int)) # Output: True
6 print(len("Hello"))      # Output: 5
7 print(list("Hello"))     # Output: ['H', 'e', 'l', 'l', 'o']
8 print(max(1, 5, 3))      # Output: 5
9 print(min(1, 5, 3))      # Output: 1
10 print(pow(2, 3))         # Output: 8
11 print("Hello, World!")  # Output: Hello, World!
12 print(list(range(5)))    # Output: [0, 1, 2, 3, 4]
13 print(sorted([3, 1, 2])) # Output: [1, 2, 3]
14 print(str(5))            # Output: '5'
15 print(sum([1, 2, 3]))    # Output: 6
16 print(tuple([1, 2, 3]))  # Output: (1, 2, 3)
```

## 2 Recursive search for element in a list

```
1 def indexof(num, lst):  
2     if len(lst) == 0:  
3         return -1  
4     if lst[0] == num:  
5         return 0  
6     index = indexof(num, lst[1:])  
7     if index != -1:  
8         index += 1  
9     return index
```