



# COMPSCI 105 S1 2017 Principles of Computer Science

14 Stack (2)



## 14.2 Bracket Matching Exercise 1

- ▶ Complete the function `match(a, b)`
  - ▶ It is a function to check whether the brackets are match
    - ▶ Examples: `a = '('; b = ')' return True`



## 14.2 Bracket Matching

### Exercise 1

- ▶ Complete the function `match(a, b)`
  - ▶ It is a function to check whether the brackets are match
    - ▶ Examples: `a = '('; b = ')' return True`

```
def matches(a, b):  
    if (a == '(' and b == ')'):  
        return True  
    elif (a == '[' and b == ']'):  
        return True  
    elif (a == '{' and b == '}'):  
        return True  
    else:  
        return False
```



## 14.3 Postfix Calculator Exercise 2

- ▶ Evaluate the following postfix expression:
  - ▶ `10 4 2 - 5 * + 3 -`



## Exercise 2

▶ Evaluate the following postfix expression:

▶  $10\ 4\ 2\ -\ 5\ *\ +\ 3\ -$

▶ 17



## Exercise 3

▶ Converting the following infix expression to postfix

▶  $(B - C) * (D - E)$



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▶ Converting the following infix expression to postfix

▶  $(B - C) * (D - E)$

▶ BC-DE-\*