

CS 105

Week 9, Part 2

MP6

Out: Today

Due: Next Tuesday (Nov. 4) by 6pm

MPx Sessions

Combined MPx session for
MP4, MP5, and MP6 next week

Midterm 2 Exam

=AVERAGE(number1, [number2], ...)

=AVERAGEIF(range, criteria, [average_range])

=AVERAGEIFS(average_range, criteria_range1, criteria1, ...)

=INDEX(array, row_num, [column_num])

=MATCH(lookup_value, lookup_array, [match_type])

=MIN(number1, [number2], ...)

=MAX(number1, [number2], ...)

=SUM(number1, [number2], ...)

=SUMIF(range, criteria, [sum_range])

=SUMIFS(sum_range, criteria_range1, criteria1, ...)

=VLOOKUP(lookup_value, table_array, col_index_num,
[range_lookup])

Academic Integrity

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It is **never okay** to submit someone else's work as your own.

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It is **never okay** to submit someone else's work as your own.

It is **never okay** to send a solution to someone.

Academic Integrity

“[Sanctions] for cheating on a programming assignment includes a loss of all points for the assignment and that the final course grade is lowered by one whole letter grade.”

- CS 105 Course Syllabus
- Department of Computer Science
- College of Engineering


```
=COUNTIFS(criteria_range1,  
            criteria1,  
            ...);
```

...or SUM__() or AVERAGE__()

*When dealing with strings, you can use **pattern matching** to match a pattern or substring in a string.*

Pattern Matching

**: Zero or more characters*

?: Exactly one character

Pattern	Description
"alice"	Matches exactly "alice"

Pattern

Description

"alice"

Matches exactly "alice"

"alice*"

Matches all strings that
start with "alice"

Pattern

Description

"alice"

Matches exactly "alice"

"alice*"

Matches all strings that start with "alice"

"*alice*"

Matches all strings that contain "alice"

Pattern

Description

"alice"

Matches exactly "alice"

"alice*"

Matches all strings that start with "alice"

"*alice*"

Matches all strings that contain "alice"

"?un"

Matches "sun", "fun",
"pun", etc;

Pattern: "?or*"

Data: World

A) TRUE, matches pattern

B) FALSE, does not match pattern

***Pattern:* "?or*"**

***Data:* orange**

A) TRUE, matches pattern

B) FALSE, does not match pattern

Pattern: "?or*"

Data: preempt

A) TRUE, matches pattern

B) FALSE, does not match pattern

Pattern: "?or*"

Data: forward

A) TRUE, matches pattern

B) FALSE, does not match pattern

Pattern: "?or*"

Data: realtor

A) TRUE, matches pattern

B) FALSE, does not match pattern

A) =SUM__()

B) =COUNT__()

C) =AVERAGE__()

D) =MIN() / =MAX()

**E) =INDEX() / =MATCH() /
=VLOOKUP()**

