

Computer Science I

CMPE/CSCI 1370 - 01

Project demo: word search

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What do we need to solve this?

1. How do we represent the puzzle? (Collections)
2. How do we repeat an action multiple times? (Iteration)
 - Search for each word in the dictionary
 - Compare each character in the word to the puzzle

Decode a secret

while loop

1. evaluates the conditional expression
 - if true, goes to 2
 - if false, exit the loop and performs the next line after the closing brace
2. evaluates the body of the loop
3. back to 1

Local variables

- "declared" in the function body, not in the parameter list
- "initialized" in the function body, not passed as an argument during function call

All the operators

- `=` Assignment (note, different from equality comparison `==`)
- `++` Increment, `--` Decrement
- `+=` Compound assignment

while

```
int i = 0;
while (i < 10) {
    cout << i;
    i++;
}
```

for

```
for (int i = 0; i < 10; i++) {
    cout << i;
}
```

In which order are these sections performed?

```
    // A    // B    // C
for (int i = 0; i < 10; i++) {
    cout << i; // D
}
```

A. ABCD

B. ABDC

C. ACBD

D. ADBC

E. BDCA

For this particular loop, how many times is D performed?

```
    // A    // B    // C  
for (int i = 0; i < 10; i++) {  
    cout << i; // D  
}
```

A. 0

B. 1

C. 9

D. 10

E. 11

For this particular loop, how many times is C performed?

```
    // A    // B    // C
for (int i = 0; i < 10; i++) {
    cout << i; // D
}
```

A. 0

B. 1

C. 9

D. 10

E. 11

Before the loop exits, what is the last section that's performed?

```
    // A    // B    // C  
for (int i = 0; i < 10; i++) {  
    cout << i; // D  
}
```

A. A

B. B

C. C

D. D

In-class exercises!

Attendance!

<http://bit.ly/1370-1rollcall>