CS 112 Introduction to Programming

Lecture #10:
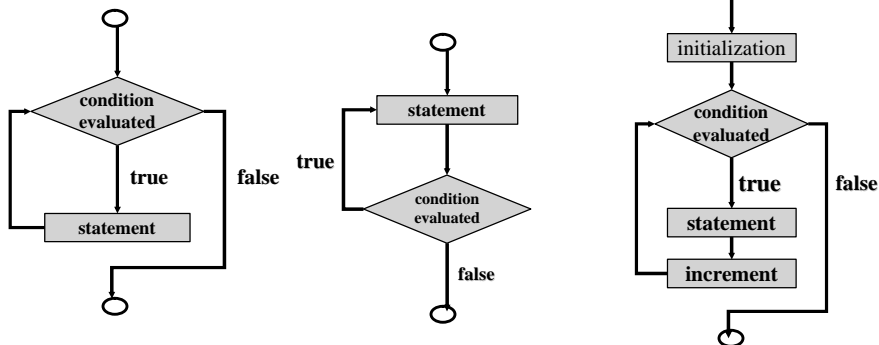
Examples Using Loops

Http://flint.cs.yale.edu/cs112/

Review: Loop Statements

❑ `while` statement

❑ `do` statement

❑ `for` statement

```
while ( condition )
   statement1;
```

```
do {
 statement list;
} while ( condition );
```

```
for (initialization; condition; increment )
 statement;
```

while: condition evaluated → true → statement (loops back); false → end.

do: statement → condition evaluated → true (loops back); false → end.

for: initialization → condition evaluated → true → statement → increment (loops back); false → end.

2

Outline

❑ Admin. and review

➢ Example programs using loops

Example 1

❑ Write a program to get a sequence of integers from the user until the user inputs 0. Print the largest number.

Example 2

❑ Write a program to get a sequence of integers from the user until the user inputs 0. Print the second largest number.

Example 3

❑ Get a number from 1 to 15 from the user and print a triangle using '*'.

```
       *
      ***
     *****
    *******
   *********
  ***********
 *************
***************
```

Example: user inputs 8.   See Triangle.cs