CSE 121 – Lesson 11

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Music: 121 23au Lecture Tunes 🌧️

sli.do #cse121

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PAUL G. ALLEN SCHOOL
OF COMPUTER SCIENCE & ENGINEERING

Announcements, Reminders

- Quiz 1 was yesterday
  - I am close to being able to release Quiz 0 and Quiz 1 grades...likely within the next few days.

- Next Friday (11/10) is a University Holiday...so no class! 😴

- Programming Assignment 2 will be released later tonight
  - Due Thursday, Nov 9

Poll in with your answer!

How would you describe what the variable x calculates?

```
int roll = -1; // priming the loop
int x = -1;
while (roll != lucky) {
    roll = rand.nextInt(sides) + 1;
    if (x < roll) {
        x = roll;
    }
}
System.out.println(roll + ": It's my lucky number!!!!!!!");
```

A. The largest value rolled

B. The smallest value rolled

C. The last value rolled

D. The first value rolled

E. The sum of all values rolled

F. Error

G. -1

(PCM) Scanner

Scanner console = new Scanner(System.in);

type   name   Scanner construction code

An **object** that we can use to *read in input*

      In the java.util package

Methods	Description
`nextInt()`	Reads the next token from the user as an `int` and returns it.
`nextDouble()`	Reads the next token from the user as an `double` and returns it.
`next()`	Reads the next token from the user as an `String` and returns it.
`nextLine()`	Reads an *entire line* from the user as an `String` and returns it.

(PCM) Tokens

A unit of user input, as read by the Scanner

- Tokens are separated by *whitespace* (spaces, tabs, new lines)

```
23    John Smith
      42.0     "Hello world"  $2.50 "  19
```

Fencepost Pattern

Some task where one piece is repeated *n* times, and another piece is repeated *n-1* times and they alternate