CSE 121 – Lesson 11

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Music: 121 23au Lecture Tunes 🐐

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sli.do #cse121
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
# Scanner

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

In the `java.util` package

<table>
<thead>
<tr>
<th>Methods</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>nextInt()</code></td>
<td>Reads the next token from the user as an <code>int</code> and returns it.</td>
</tr>
<tr>
<td><code>nextDouble()</code></td>
<td>Reads the next token from the user as an <code>double</code> and returns it.</td>
</tr>
<tr>
<td><code>next()</code></td>
<td>Reads the next token from the user as an <code>String</code> and returns it.</td>
</tr>
<tr>
<td><code>nextLine()</code></td>
<td>Reads an <em>entire line</em> from the user as an <code>String</code> and returns it.</td>
</tr>
</tbody>
</table>
**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.

\[ g-u-m-b-a-l-l \]