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| LEARNING PROFILE FOR SnakeEyes | | | | | |
| *Name* | *:* | *Tyler Lucas* | *Submission Date* | *:* | *N/A* |
| *Student ID* | *:* | *3305203* | *Time Spent* | *:* | *10:50 am* |

# Problem Statement

How many times do you have to roll a pair of dice before they come up snake eyes? You could do the experiment by rolling the dice by hand. Write a computer program that simulates the experiment. The program should report the number of rolls that it makes before the dice come up snake eyes.

3.2 Study Activities for Section 3.3.1: Solve… using a while loop.

3.3 Study Activities for Section 3.3.2: Solve… using a do… while loop.

Theoretical probability is , meaning it should take an average of 36 rolls.

# Description of the Code

Simulates rolling a pair of dice. Stops if both dice roll a ‘1’ and outputs the number of rolls it took.

Implemented as directed, using either a while loop or a do… while loop, chosen in code by flipping the flags ENABLE\_WHILE and ENABLE\_DOWHILE (private static final boolean).

# Errors and Warnings

Version 1.0

No errors.

# Sample Input and Output

Example 1

Welcome to the magical dice roller game!

Let's try to get snake eyes with a pair of simulated dice...

Roll 1: 4, 2

Roll 2: 5, 5

Roll 3: 2, 4

Roll 4: 5, 1

Roll 5: 5, 4

Roll 6: 2, 5

Roll 7: 4, 6

Roll 8: 1, 4

Roll 9: 1, 4

Roll 10: 5, 4

Roll 11: 5, 1

Roll 12: 6, 2

Roll 13: 1, 4

Roll 14: 2, 4

Roll 15: 2, 5

Roll 16: 5, 1

Roll 17: 6, 3

Roll 18: 5, 5

Roll 19: 4, 6

Roll 20: 1, 1

It took 20 rolls to get snake eyes.

Example 2

Welcome to the magical dice roller game!

Let's try to get snake eyes...

Roll 1: 1, 1

It took 1 roll to get snake eyes.

Example 3

Welcome to the magical dice roller game!

Let's try to get snake eyes...

Roll 1: 1, 6

Roll 2: 5, 3

Roll 3: 3, 1

Roll 4: 2, 5

Roll 5: 4, 1

Roll 6: 2, 2

Roll 7: 4, 3

Roll 8: 4, 2

Roll 9: 6, 2

Roll 10: 3, 5

Roll 11: 3, 5

Roll 12: 5, 2

Roll 13: 2, 5

Roll 14: 2, 2

Roll 15: 3, 2

Roll 16: 6, 5

Roll 17: 2, 5

Roll 18: 3, 5

Roll 19: 2, 2

Roll 20: 5, 5

Roll 21: 2, 5

Roll 22: 2, 2

Roll 23: 3, 4

Roll 24: 2, 4

Roll 25: 5, 1

Roll 26: 2, 5

Roll 27: 1, 6

Roll 28: 3, 1

Roll 29: 4, 3

Roll 30: 5, 4

Roll 31: 4, 2

Roll 32: 2, 1

Roll 33: 6, 3

Roll 34: 1, 4

Roll 35: 4, 5

Roll 36: 5, 5

Roll 37: 5, 1

Roll 38: 5, 6

Roll 39: 5, 3

Roll 40: 2, 4

Roll 41: 4, 4

Roll 42: 1, 3

Roll 43: 5, 6

Roll 44: 5, 2

Roll 45: 3, 5

Roll 46: 5, 5

Roll 47: 2, 3

Roll 48: 5, 1

Roll 49: 5, 1

Roll 50: 6, 5

Roll 51: 6, 4

Roll 52: 5, 4

Roll 53: 5, 2

Roll 54: 4, 5

Roll 55: 5, 5

Roll 56: 1, 5

Roll 57: 5, 1

Roll 58: 2, 1

Roll 59: 3, 3

Roll 60: 3, 6

Roll 61: 1, 5

Roll 62: 4, 1

Roll 63: 4, 6

Roll 64: 5, 5

Roll 65: 1, 1

It took 65 rolls to get snake eyes.

# Discussion

Interesting.