

IPO CHART

Program name:	[PennyPitch (CH9,E13)]	
INPUT	PROCESS	OUTPUT
Hint: What will the user input?	Hint: What is the program going to do with the input information?	Hint: What will the screen display after user input?
Run program	<pre> while (placed < totalPrizes) { int pos = rand.nextInt(25); String prize = prizes[rand.nextInt(prizes.l length)]; if (board[pos].equals("-")) { board[pos] = prize; placed++; } } System.out.println("=== Penny Pitch Board ==="); for (int i = 0; i < board.length; i++) { System.out.print("[\" + board[i] + \" \"); if ((i + 1) % 5 == 0) System.out.println(); } int[] prizeCounts = new int[prizes.length]; </pre>	<pre> === Penny Pitch Board=== [Ball] [-] [GameBoy] [-] [-] [GameBoy] [-] [Poster] [Keychain] [Ball] [GameBoy] [Ball] [-] [-] [GameBoy] [-] [-] [-] [Ball] [Poster] [Poster] [GameBoy] [Bear] [Keychain] [-] === Penny Tosses === Penny 1 landed on square 3 which has: - → No prize. Penny 2 landed on square 9 which has: Ball → You won a Ball! Penny 3 landed on square 9 which has: Ball → You won a Ball! Penny 4 landed on square 1 which has: - → No prize. Penny 5 landed on square 8 which has: Keychain → You won a Keychain! Penny 6 landed on square 5 which has: GameBoy → You won a GameBoy! Penny 7 landed on square 2 which has: GameBoy → You won a GameBoy! Penny 8 landed on square </pre>

	<pre> System.out.println("\n=== Penny Tosses ==="); for (int toss = 1; toss <= 10; toss++) { int spot = rand.nextInt(25); String landedOn = board[spot]; System.out.print("Penny " + toss + " landed on square " + spot + " which has: " + landedOn); if (!landedOn.equals("-")) { System.out.println(" → You won a " + landedOn + "!"); for (int i = 0; i < prizes.length; i++) { if (landedOn.equals(prizes[i])) { prizeCounts[i]++; } } } else { System.out.println(" → No prize."); } } System.out.println("\n=== Prizes You Won ==="); for (int i = 0; i < prizes.length; i++) { System.out.println(prizes[i] + ": " + prizeCounts[i]); </pre>	<p>16 which has: - → No prize.</p> <p>Penny 9 landed on square 4 which has: - → No prize.</p> <p>Penny 10 landed on square 8 which has: Keychain → You won a Keychain!</p> <p>=== Prizes You Won ===</p> <p>Bear: 0</p> <p>GameBoy: 2</p> <p>Ball: 2</p> <p>Poster: 0</p> <p>Keychain: 2</p>
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