

Know Questions - C++

Check your understanding of the concepts in the **Vision Sensor Unit** by answering these questions:

1. **What does the takeSnapshot() instruction do?**
 - a. Determines if an object exists or not
 - b. Takes a snapshot of the current image from the Vision Sensor so that it can be analyzed
 - c. Prints the color of the object on the Brain's screen
 - d. Streams a continuous video of what the Vision Sensor sees
2. **Which of the following should come first when configuring a signature for the Vision Sensor?**
 - a. Still the image so an area of color can be selected
 - b. Select the "Set" button
 - c. Clear the signature
 - d. Place the object in view of the Vision Sensor
3. **Which of the following is NOT an example of tuning the Vision Sensor?**
 - a. Adjusting the color signature slider
 - b. Adjusting the brightness
 - c. Resetting the color signature of adjusting the slider and brightness does not help
 - d. Calculating the center x
4. **Why is a [Forever] block used in the Detecting Objects example project?**
 - a. "Blue object found" should be printed forever
 - b. The takeSnapshot() only takes one current image of what the Vision Sensor sees. Using the forever structure allows the Vision Sensor to take multiple snapshots so that it can continuously check for different objects.
 - c. The instructions inside should only repeat a certain number of times
 - d. The if-then-else structure needed to be contained inside another looping structure
5. **The leftmost X value of an object is 30 pixels and the width is 40 pixels in total. What is true about this object?**
 - a. Its centerX is 50 and it is to the left of the robot's center point.
 - b. Its centerX is 50 and it is to the right of the robot's center point.
 - c. Its centerX is 70 and it is to the left of the robot's center point.
 - d. Its centerX is 70 and it is to the right of the robot's center point.