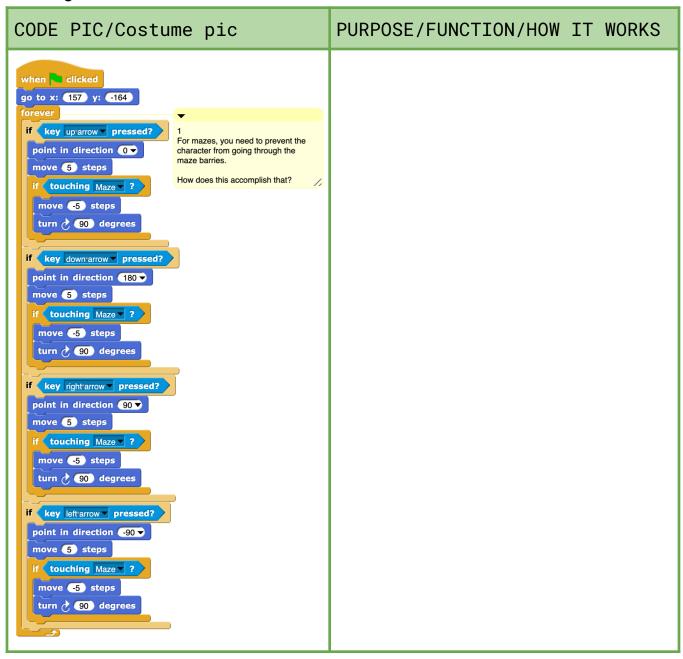
## AP Computer Science Principles

Jnit: Game Design
Lesson 6: Maze Mechanics
Link: <u>Maze Mechanics</u>
NYS Standards:
9-12.CT.8 Develop a program that effectively uses control structures in order to create a computer program for practical intent, personal expression, or to address a
societal issue.
9-12.CT.9 Systematically test and refine programs using a range of test cases, based on anticipating common errors and user behavior.
Learning Intentions:
☐ Understand that a maze is a sprite, not a background
☐ Understand and explain how to prevent a character from going
through or getting stuck in a maze.
$\square$ Use a timer to control the game ending.
☐ Program "enemies" to interact with "pak-mon"
Instructions:
1)Open and save the file <u>Maze Mechanics</u>
2)Paste a SHARED link to your project here (I
will be able to see updates/changes as long as
·
you save them).

3) **Explore** what each sprite can do-click around!

Please read the comments on the code carefully.

4) Explain how this code prevents Pak-Mon from running through the maze



5)

- a) On the octopus sprite, modify the script so that the octopus can make it out of that small region by itself. (Hint: Should it always turn the same way?)
- b) Add code that will end the game if Pak-Mon touches the octopus.

Paste the script here and explain how it works.

PURPOSE/FUNCTION/HOW IT WORKS