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Congrats Daniel! This project has been marked as completed.

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This project is based on your last class PRO-C123

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Project Template Output



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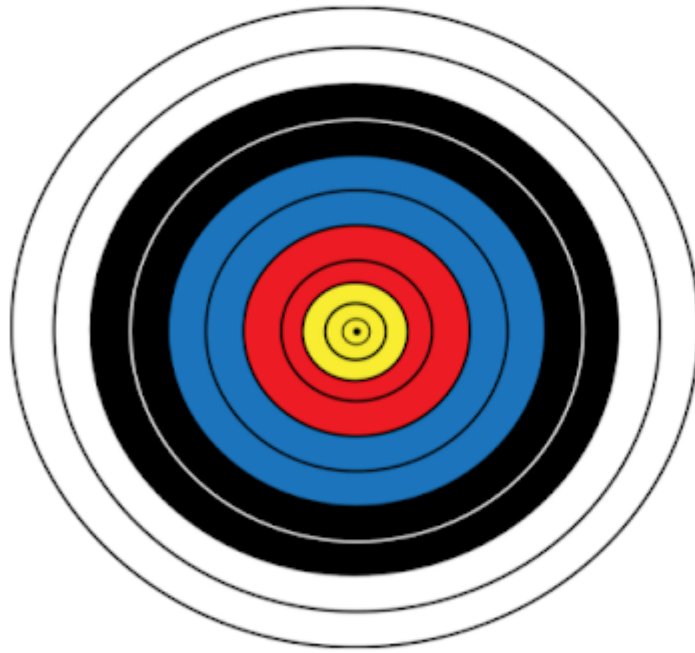


HELP



## RL Problem to Solve

Hit the center of the target with maximum reward



Number of **State**: ?

Number of **Actions**: ?

### Expected Output

Reward Matrix = 1D Numpy array

Action= randomly chosen target

**\*This is just for your reference. We expect you to apply your own creativity to the project.**

### Getting Started:

1. Open the boilerplate [link](#).

### Specific Tasks to complete the Project:

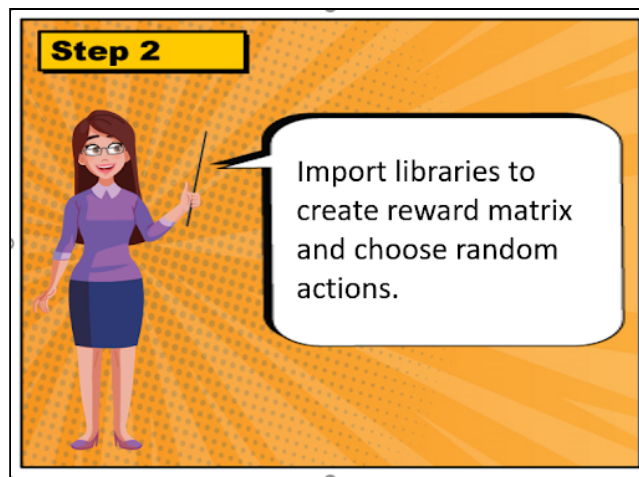
#### Step 1



1. Decide the number of states and actions.
2. Decide the rewards for each action taken.

Number of **State**: ?

Number of **Actions**: ?



```
#import required libraries
```



```
#Create reward matrix
```



```
#Define a function shoot() for taking random action
```

#### Submitting the Project:

1. **SAVE** all the changes made to the project.
2. Click on "**Run**" once to check if it is working.
3. Open GitHub and create a repository named **Project123**.
4. Click **Share**.

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5. Click Change and choose the '**anyone with the link**' option.

**HELP**



Hints:

- 1. In step 1, Since only one arrow is fired at a time, only one state exists.
- 2. In step 1, decide the actions depending upon the number of rings.
- 3. In step 3, as you move towards the center the rewards should increase. So, decide on rewards depending upon the position of the rings. You can assign different positive rewards for each ring.

