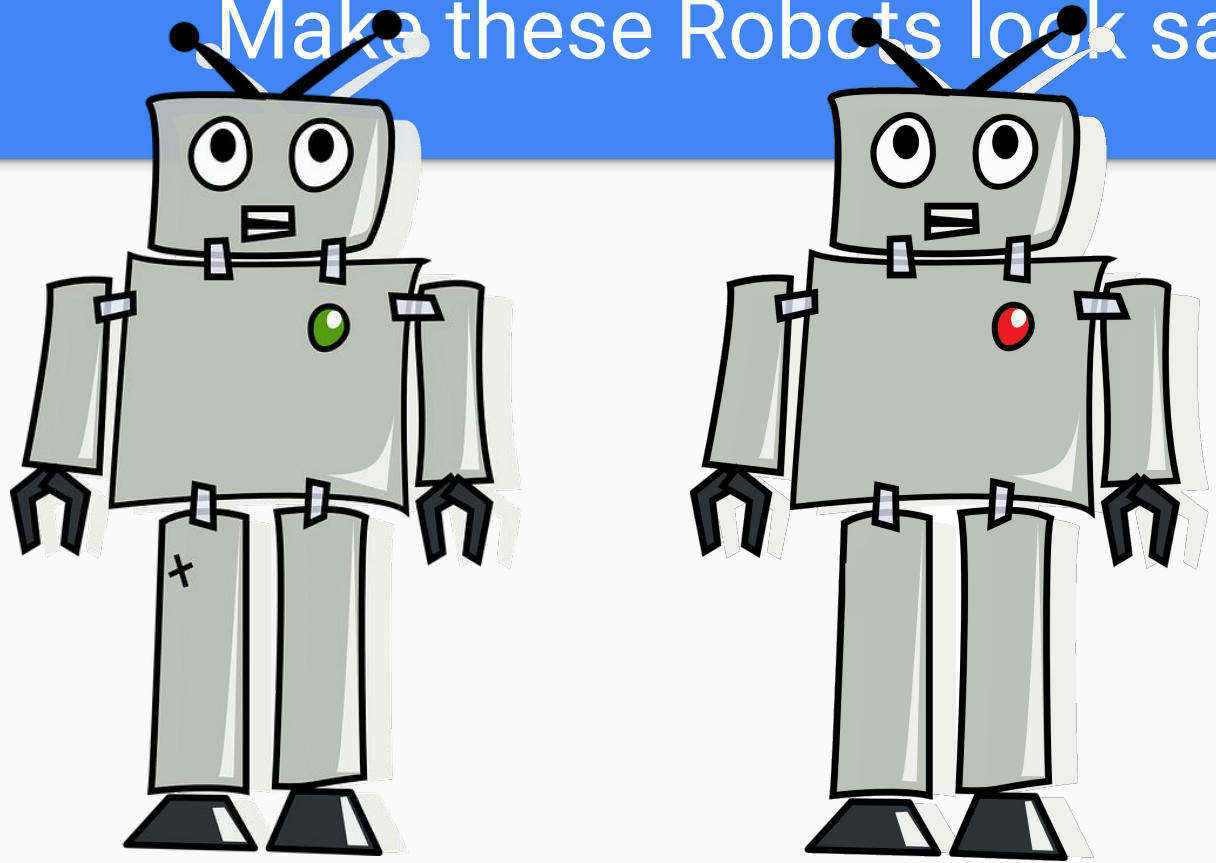
Dynamic Programming

Just an extension Of recursion.

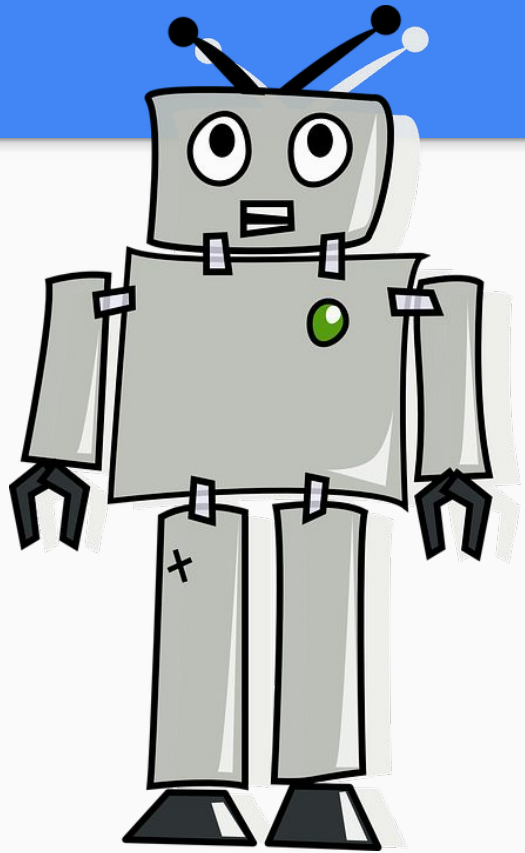
You Are A Creator

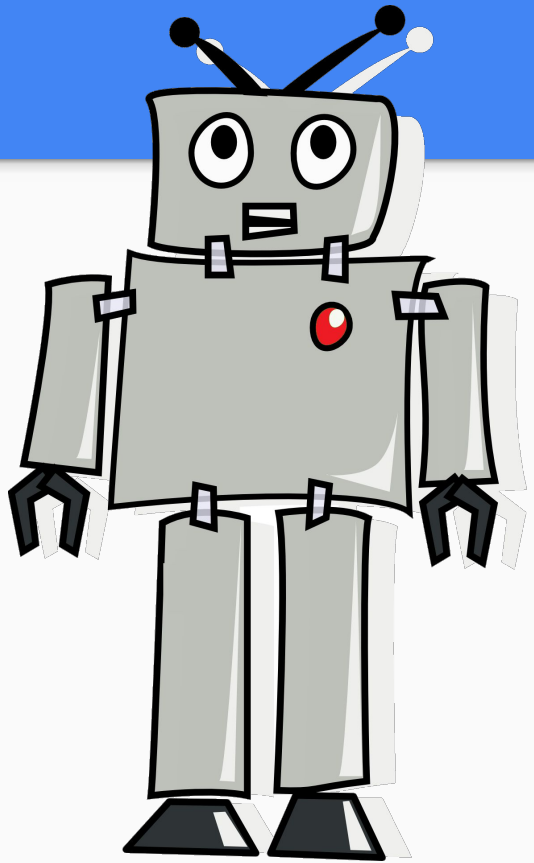
Make these Robots look same.



How do you make them Look same ?

Choice 1



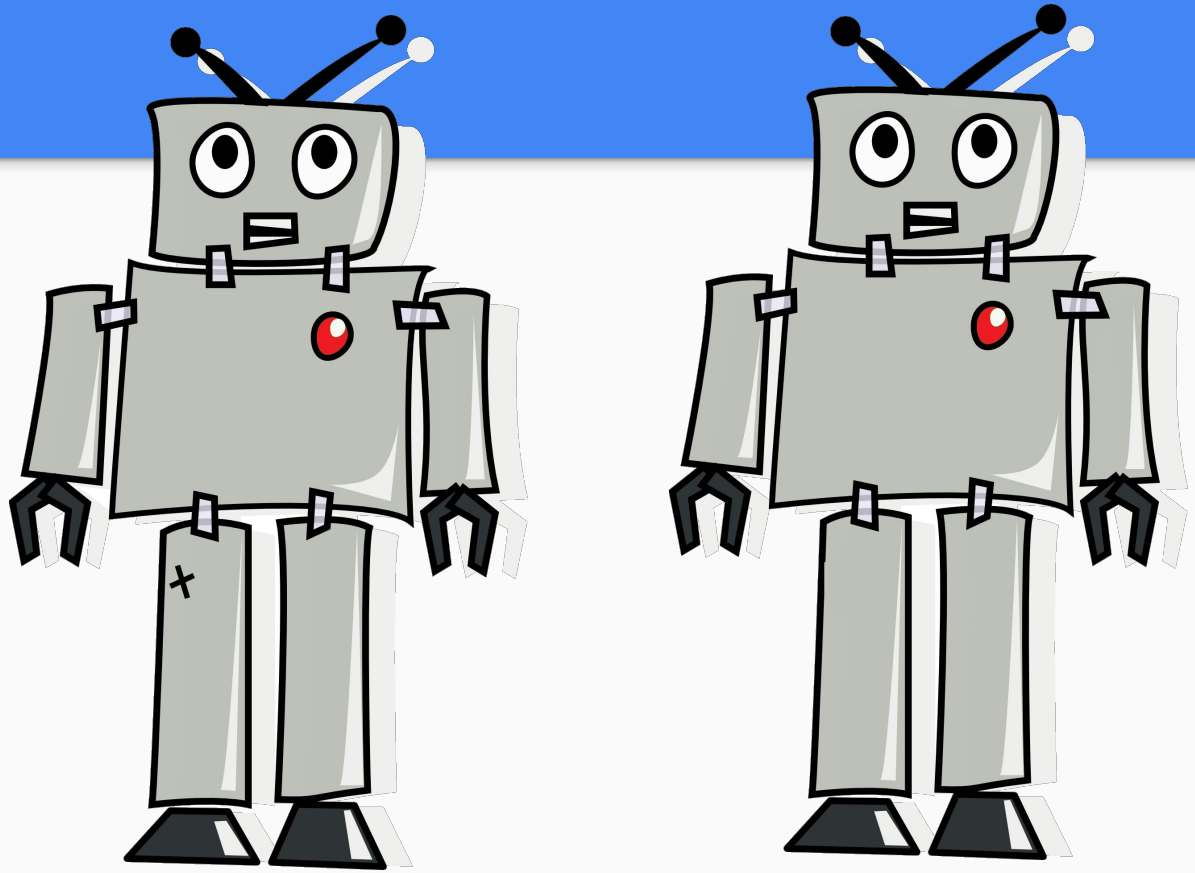


i. “Replace” Green Button with Red button.

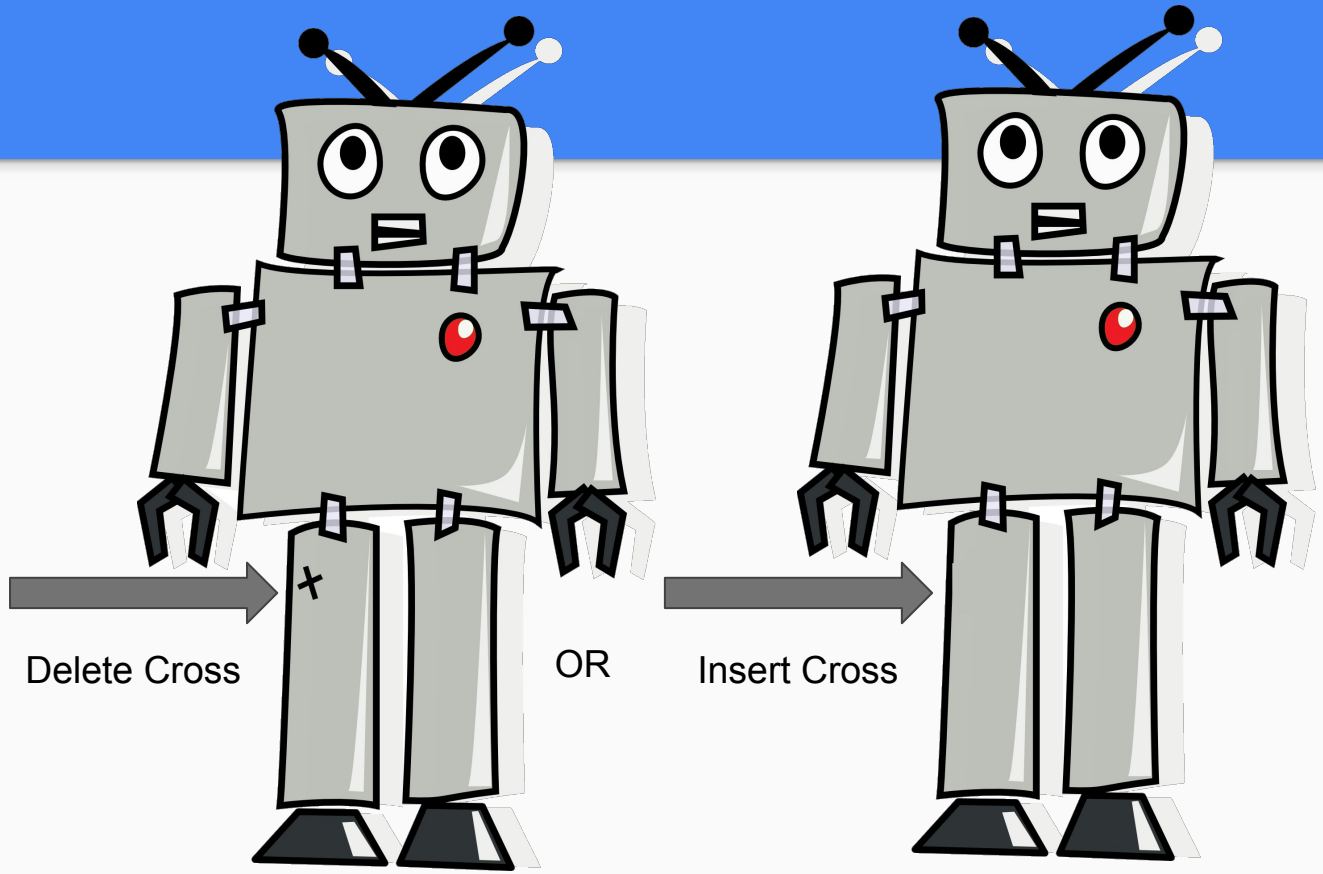
Or

ii. “Replace” Red button with Green button

For Ex: Let's Replace Robot-1, with Red Button.



Choice 2 & 3

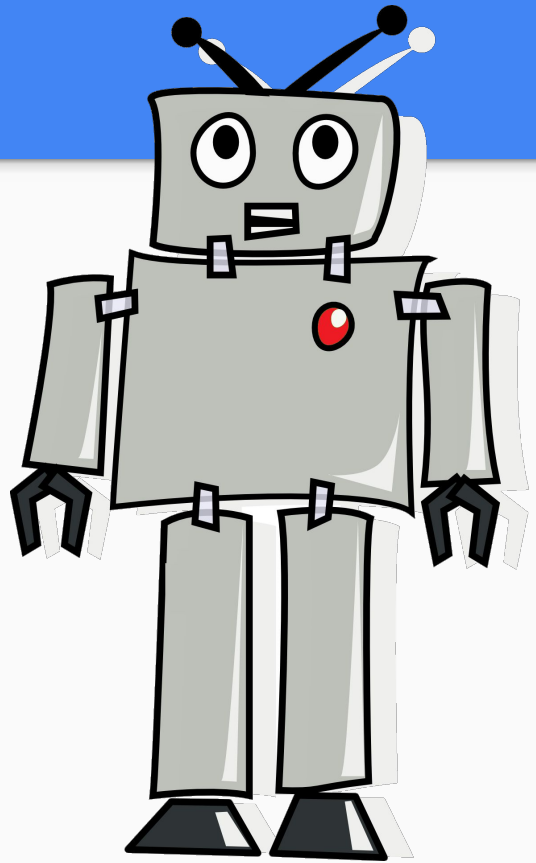


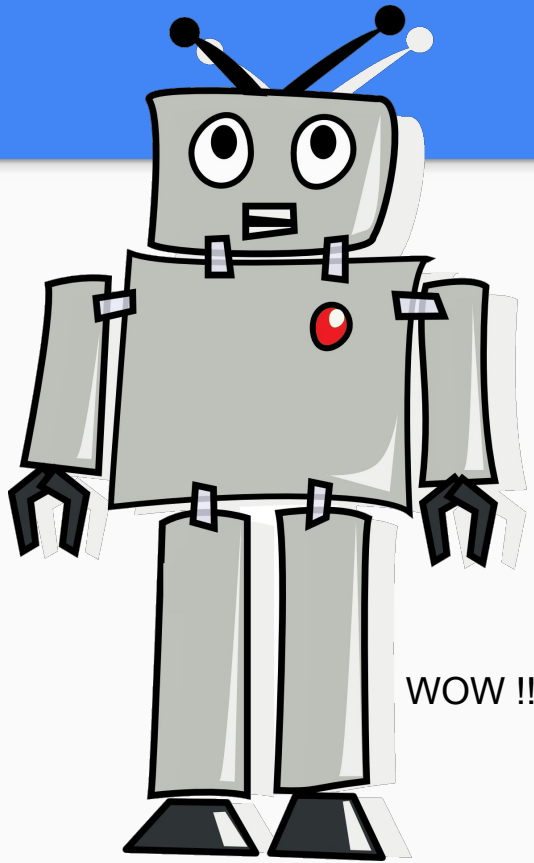
i. “Insert” Cross on Robot-2 Right Leg.

Or

ii. “Delete” Cross on Robot-1 Right Leg

For Ex: Let’s Delete Cross On Robot-1





WOW !!! Two Robot’s Look Same.

Evaluate Choices.

Cheat Sheet To Solve DP.

- You are a Creator.
- Evaluate Choices.
- Write Down a Recursion Function Along With Base Cases.
- Ensure that Recursion Function takes varying parameters.
- Setup cache and capture the results in the cache.
- Return if result is in the cache.
- Done.

How Many Choices We Have To Make 2 Robots look same ?

1. Replace
2. Delete
3. Insert

Evaluating these Choices is “THE” most important thing in Dynamic Programming.