

## Ideology to proceed:

- For each circle, check if Abhimanyu can battle or needs to use skips/recharges.
- Update enemy powers if regeneration is needed.
- Return **"Success"** if all circles are processed successfully, otherwise **"Failure"**.

## Algorithm

### 1. Initialise Variables:

- **User Input:**
  - **p**: Initial power of Abhimanyu.
  - **a**: Total skips available.
  - **b**: Total recharge power Abhimanyu can do.
  - **enemy\_powers[]**: Array of powers for 11 enemies.
- **Variables:**
  - Abhimanyu's current power: **current\_power = p**
  - Skips remaining: **skips = a**
  - Power recharge left: **recharge\_left = b**
  - to store regenerated enemy powers for circles 3 and 7: **regenerate\_enemy[]**

### 2. Regenerated Enemy Powers will be half of their initial power:

- Set **regenerate\_enemy[2]** to **enemy\_powers[2] / 2**. // For enemy 3
- Set **regenerate\_enemy[6]** to **enemy\_powers[6] / 2**. // For enemy 7
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### 3. Loop from circle **i** from 0 to 10:

- **power = enemy\_powers[i]**
- **Check if Abhimanyu can battle:**
  - If **current\_power >= power**
    - **current\_power -= power**
    - **Regenerated Enemy to attack from behind in iterative next circle:**
      - If **i == 2** or **i == 6** // circle 3 or 7
        - If **i + 1 < 11**
          - Set **enemy\_powers[i+1]** to **regenerate\_enemy[i]**
  - Else if **current\_power** is less than **power**
    - **Skip battle if skips are remaining:**
      - If **skips > 0**:
        - **skips = skips - 1**
        - Continue to the next iteration of the loop.
      - Else if **recharge\_left > 0**:
        - **recharge\_left = recharge\_left - 1**
        - Set **current\_power = p** // Initial power
        - **Recheck Battle After Recharge** // iterative part to check battle can create separate function while writing program to be invoked here.
          - If **current\_power >= power**
            - **current\_power -= power**
            - **Regenerated Enemy:**
              - If **i == 2** or **i == 6** // circle 3 or 7
                - If **i + 1 < 11**
                  - Set **enemy\_powers[i+1]** to **regenerate\_enemy[i]**
              - Else (Recharge failed to meet enemy power):
            - Return **"Failure"**
        - Else (No skips or recharges left):
        - Return **"Failure"**.

### 4. Return **"Success"** // end of function

## Test Cases

- **Test Case 1:**

- ☐ Initial power (p) = 30
- ☐ Skips (a) = 0
- ☐ Recharges available (b) = 2
- ☐ enemy\_powers = [25, 15, 25, 20, 10, 30, 18, 20, 9, 33, 12]

-> **Failure: Abhimanyu cannot cross the Chakravyuha due to insufficient power and no skips or recharges left.**

- **Test Case 2:**

- ☐ Initial power (p) = 50
- ☐ Skips (a) = 6
- ☐ Recharges available (b) = 2
- ☐ enemy\_powers = [25, 15, 25, 20, 10, 30, 18, 20, 9, 33, 12]

-> **Success: Abhimanyu can cross the Chakravyuha.**