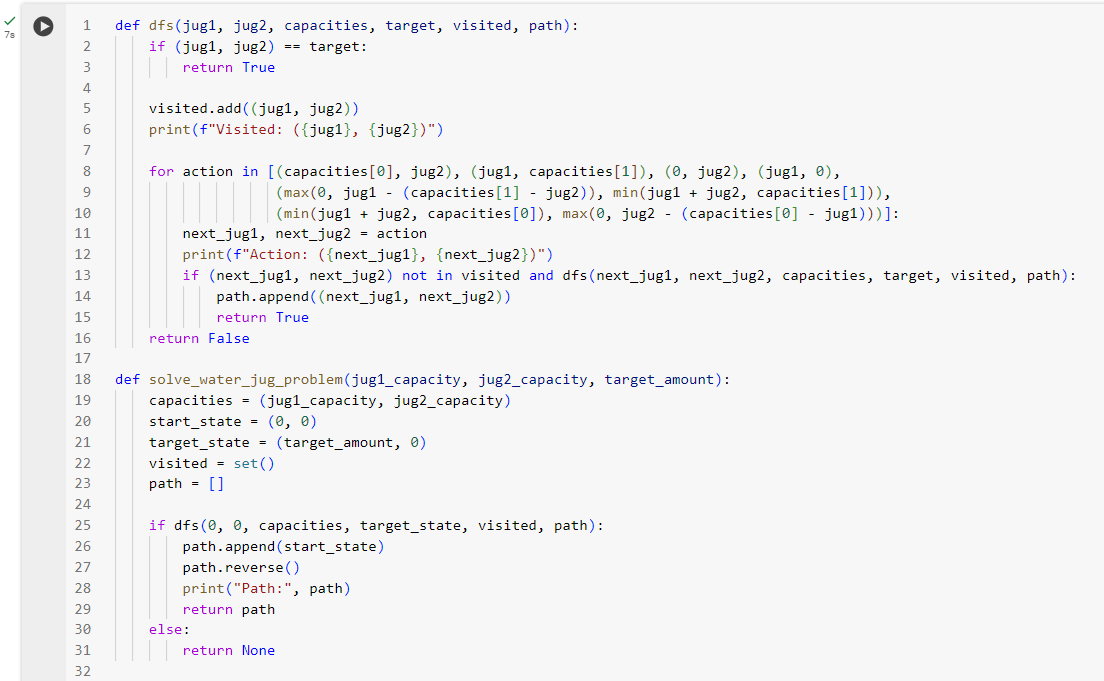
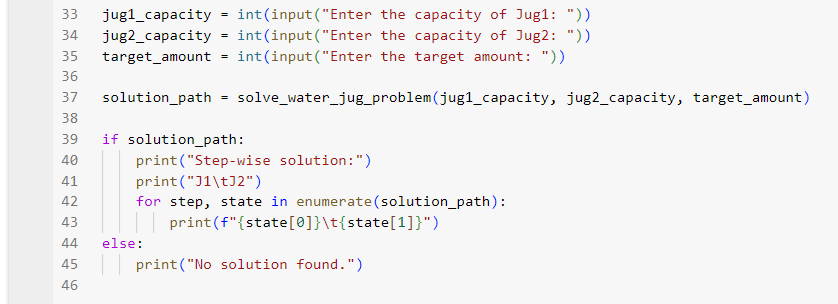
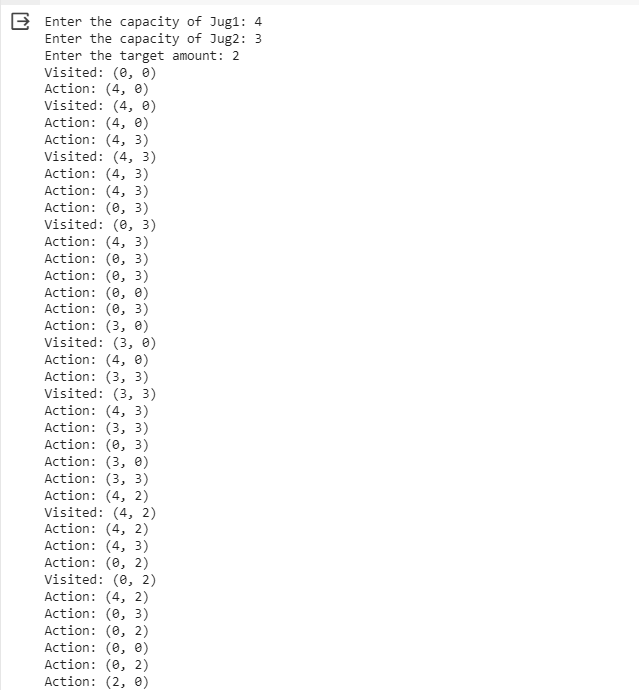
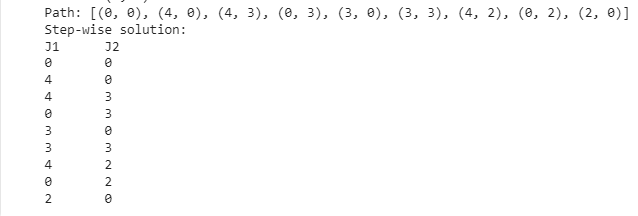
**Code (using DFS):**

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**Output:**

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