What is DP?

* dynamic programming in short know as DP is an algorithmic way of solving a problem by optimizing a recursive solution of that problem.

**steps**

1. Identify the problem & the base case
2. Solve the problem using recursion
3. Optimize the problem reducing the redundant work by storing previous calculated value

<https://codeforces.com/group/MWSDmqGsZm/contest/223339/problem/U>