![Graphical user interface, text, application, email

Description automatically generated]()![Graphical user interface, text, application, email

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Question:

Here 2^n subsequence are there we need to find palindrome in them.

Here naïve would be to find all subsequences that are 2^n and find palindrome or not

Code:

![Text

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Logic for this dp code:

![A picture containing text, watch, gauge

Description automatically generated]() for this i=0 and j =length-1.2 diff cases.

Here consider for abca here I increase then send palindrome search for bca and then j-1 then send search for abc. Like this searching would happen. Here also a same as a in abca and hence do +1.

![Text

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Why we do i+1, j-1 here.

 here take this testcase for above method.

![A picture containing text, device, meter, gauge

Description automatically generated]() here see that when divided ab b return b as +1 and bc as another +1 and then -b palindrome found as only 1 sequence of b should be there not redundant.