

Minimum Score Triangulation of ... 2153067:王鹏博-课后作业6-3.py x 2153067:王鹏博-课后作业6-1.py x +

https://leetcode.com/problems/minimum-score-triangulation-of-polygon/submissions/924835014/

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LeetCode

Problem List

Premium

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All statuses All languages

Accepted a few seconds ago Python3

723319809 Mar 30, 2023 22:53

Python3

Runtime 97 ms Beats 85.38% Memory 13.9 MB Beats 84.91%

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Notes

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class Solution:

```
def minWeightTriangulation(self, length:int, values:list[int], dp:list[list[int]],cutPoint:int):
    for i in range(1,length):
        dp[i][i]=0
    for r in range(2,length+1):
        for i in range(1,length-r+1):
            j=i+r-1
            dp[i][j]=dp[i+1][j]+values[i-1]*values[i]*values[j]
            for k in range(i+1,j):
                temp=dp[i][k]+dp[k+1][j]+values[i-1]*values[k]*values[j]
                if temp<dp[i][j]:
                    dp[i][j]=temp
                    cutPoint[i][j]=k
    return dp[1][length-1]
def minScoreTriangulation(self, values: list[int]) -> int:
    dp=[[-1 for j in range(0,len(values))] for i in range(0,len(values))]
    cutPoint=[[-1 for j in range(0,len(values))] for i in range(0,len(values))]
    return self.minWeightTriangulation(len(values),values,dp,cutPoint)
if __name__ == '__main__':
    test=Solution()
    print(test.minScoreTriangulation([1,3,1,4,1,5]))
```