Problem Link:

<https://leetcode.com/problems/minimum-score-triangulation-of-polygon/description/?envType=daily-question&envId=2025-09-29>

Solution:

class Solution {

public:

int minScoreTriangulation(vector<int>& values) {

int n = values.size();

vector<vector<int>> dp(n, vector<int>(n, 0));

for(int l = 3; l <= n; ++l)

{

for(int i = 0; i <= n - l; ++i)

{

int j = i + l - 1;

dp[i][j] = INT\_MAX;

for(int k = i + 1; k < j; ++k)

{

int c = dp[i][k] + dp[k][j] + values[i] \* values[k] \* values[j];

dp[i][j] = min(dp[i][j], c);

}

}

}

return dp[0][n - 1];

}

};