Problem Link:

<https://leetcode.com/problems/maximum-area-of-longest-diagonal-rectangle/description/?envType=daily-question&envId=2025-08-26>

Solution:

class Solution {

public:

int areaOfMaxDiagonal(vector<vector<int>>& dimensions) {

int mds = 0;

int ma = 0;

for(auto& dim : dimensions)

{

int l = dim[0];

int w = dim[1];

int ds = l \* l + w \* w;

int a = l \* w;

if(ds > mds)

{

mds = ds;

ma = a;

}

else if(ds == mds)

{

ma = max(ma, a);

}

}

return ma;

}

};