#include<iostream>

#include<algorithm>

using namespace std;

const int N = 1010;

int n, m;

int v[N];//单价

int w[N];//权重

int f[N][N];

int main()

{

cin >> n >> m;

for (int i = 1; i <= n; i++)

{

cin >> v[i] >> w[i];

}

for (int i = 1; i <= n; i++)

{

for (int j = 0; j <= m; j++)

{

f[i][j] = f[i - 1][j];//不含第i个物品

if (j >= v[i])

f[i][j] = max(f[i][j], f[i - 1][j - v[i]] + w[i]);

}

}

cout << f[n][m] << endl;

return 0;

}

#include <iostream>

using namespace std;

#include <cstring>

int main()

{

int x,y,sum=0,i,r;

char a[500][500],b[500];

cin>>x>>y;

for(i=0;i<x;i++)

{

cin>>b;

for(r=0;r<y;r++)

{

a[i][r]=b[r];

}

}

for(i=0;i<x;i++)

{

for(r=0;r<y;r++)

{

if(i!=0&&r!=0&&1!=x-1&&r!=y-1)

{

if(a[i][r]=='0'&&a[i][r-1]=='\*'&&a[i][r+1]=='\*'&&a[i+1][r]=='\*'&&a[i-1][r]=='\*')

{

sum++;

}

}

}

}

cout<<sum<<endl;

return 0;

}