#include<bits/stdc++.h>

using namespace std;

int knapsack(vector<int> wt, vector<int> cost, int W, vector<vector<int> > &dp, int n){

for(int i=0;i<=n;i++){

dp[i][0] = 0;

}

for(int i=0;i<=W;i++){

dp[0][i] = 0;

}

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

for(int j=1;j<=W;j++){

if(wt[i-1]<=j){

dp[i][j] = max(cost[i-1] + dp[i-1][j-wt[i-1]], dp[i-1][j]);

}

else{

dp[i][j] = dp[i-1][j];

}

}

}

return dp[n][W];

}

int main(){

int n,W;

cin>>n>>W;

vector<int> cost(n);

vector<int> wt(n);

int i = n;

int j = 0;

while(i--){

int x,y;

cin>>x>>y;

wt[j] = x;

cost[j] = y;

j++;

}

vector<vector<int> > dp(n+1,vector<int> (W+1,-1));

cout<<knapsack(wt,cost,W,dp,n);

}