#include <iostream>

using namespace std;

int min\_(int a, int b, int c){

if (a < b)

return (a < c) ? a : c;

else

return (b < c) ? b : c;

}

int minCost(int cost[4][4], int m, int n){

int i, j;

int tCost[4][4];

tCost[0][0] = cost[0][0];

for (i = 1; i <= m; i++)

tCost[i][0] = tCost[i - 1][0] + cost[i][0];

for (j = 1; j <= n; j++)

tCost[0][j] = tCost[0][j - 1] + cost[0][j];

for (i = 1; i <= m; i++)

for (j = 1; j <= n; j++)

tCost[i][j] = min\_(tCost[i - 1][j - 1], tCost[i - 1][j], tCost[i][j - 1]) + cost[i][j];

return tCost[m][n];

}

int main(){

int cost[4][4] = {

{ 9, 9, 4 },

{ 8, 0, 9 },

{1, 2, 8}

};

cout<<" The minimum cost is "<<minCost(cost, 2, 0);

return 0;

}