## HW#4 Solution.

(i) 
$$D(i,j) = min \{1 + D(i-1,j), 1 + D(i,j-1), 1 + D(i,j-1), 1 + D(i,j-1)\}$$

where  $2i \# (i,j) = \{1, i \neq x \# (i,j+1)\}$ 

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for 
$$\omega=1$$
 to  $\omega$ 

the formula to  $\omega$ 

if  $\omega: \omega$ 

$$i(\omega) = \omega$$

$$i(\omega) = \max\{k(\omega), k(\omega-\omega) + 2i\}$$

Return K(W) Pring time O (orW).

(3)  $R(j) = \max_{j} R(j-1)$ , R(previsia) + piol 3where R(j-1) means don't flace a bill board at  $XD_{-}^{i}$ and R(previsia) + piol 3 means place bill board
at X(j).

R(0)=0for j=1 to  $\infty$  $R(j)=max\left(R(j-1), R(prentic)+\mu j)^2\right)$ 

Return R(n)
Runnigtion () (n).