

$[1, 100, 1, 1, 1, 100, 1, 1, 100, 1]$
 $\begin{matrix} 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{matrix}$

index = 2

cost[i-1] = 100

cost[i-2] = 1

index = 3

cost[i-1] = 2

cost[i-2] = 100

index = 4

cost[i-1] = 3

cost[i-2] = 2

index = 5

cost[i-1] = 3

cost[i-2] = 3

index = 6

cost[i-1] = 103

cost[i-2] = 3

index = 7

cost[i-1] = 4

cost[i-2] = 103

index = 8

cost[i-1] = 5

cost[i-2] = 4

index = 9

cost[i-1] = 104

cost[i-2] = 5

$[1, 100, 2, 3, 3, 103, 4, 5, 104, 6]$
 $\begin{matrix} 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{matrix}$

cost[-1] = 6

cost[-2] = 104

return cost[-1]