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**From:** Daily Coding Problem  
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**To:** sohail47k@gmail.com  
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**Daily Coding Problem**

Good morning! Here's your coding interview problem for today.

This problem was asked by Facebook.

A builder is looking to build a row of  $N$  houses that can be of  $K$  different colors. He has a goal of minimizing cost while ensuring that no two neighboring houses are of the same color.

Given an  $N$  by  $K$  matrix where the  $n^{\text{th}}$  row and  $k^{\text{th}}$  column represents the cost to build the  $n^{\text{th}}$  house with  $k^{\text{th}}$  color, return the minimum cost which achieves this goal.

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