



William Ting &lt;williamdjting@gmail.com&gt;

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**FW: Coloring**

1 message

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**From:** Daily Byte  
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**To:** William Ting  
**Subject:** Coloring

## The Daily Byte

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Good morning,

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### Today's Byte

This question is asked by Facebook. Given an undirected graph determine whether it is bipartite.

Note: A bipartite graph, also called a bigraph, is a set of graph vertices decomposed into two disjoint sets such that no two graph vertices within the same set are adjacent.

Ex: Given the following graph...

```
graph = [[1, 3], [0, 2], [1, 3], [0, 2]]
0----1
|    |
|    |
3----2
return true.
```

Ex: Given the following graph...

```
graph = [[1, 2], [0, 2, 3], [0, 1, 3], [0, 2]]
0----1
|  /  |
|  /  |
3----2
return false.
```

Thanks,  
The Daily Byte

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