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All Factors

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Given a number N, find all factors of N.

Example:

```
N = 6
factors = {1, 2, 3, 6}
```

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Make sure the returned array is sorted.

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Problem Approach:

Complete code in the hint.

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Finding all factors of a number

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Notes[All Notes \(/profile/rsubbu55/notes/?ref=problem-page\)](/profile/rsubbu55/notes/?ref=problem-page)

Time to Solve: 6 hours + / Average Solving Time: 29 min.

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monokai

Python (python-2.7)

Seek Help



```
1 import math
2 class Solution:
3     # @param A : integer
4     # @return a list of integers
5     def allFactors(self, A):
6         f = []
7         if A < 1:
8             return f
9         sqA = int(math.sqrt(A))
10        for i in range(sqA, 0, -1):
11            if A % i == 0:
12                f.insert(0, i)
13                if A/i != i:
14                    f.append(A/i)
15        return f
```

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Hints

[Complete Solution \(/courses/1/topics/3/problems/all-factors/hints/179/\)](/courses/1/topics/3/problems/all-factors/hints/179/)

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