

(/)

[Problems \(/problems/\)](/problems/) / [basics \(/problems/basics/\)](/problems/basics/) / Trial Division[Status \(/status/TRIALDIV/\)](/status/TRIALDIV/) [Ranking \(/ranks/TRIALDIV/\)](/ranks/TRIALDIV/)

TRIALDIV - Trial Division

#simple-math (</problems/tag/simple-math/>) #basics (</problems/tag/basics/>)

In this problem, your task is to compute the decomposition of an integer into prime factors.

Input

The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows. Each test case is described in a single line containing a single integer « n » ($1 \leq n \leq 10^6$).

Output

For each test case, print in a single line the decomposition of an integer into prime factors as a list of increasing space-separated integers.

Example

Input:

```
6
16
127
256
513
2048
5097
```

Output:

```
2 2 2 2
127
2 2 2 2 2 2 2 2
3 3 3 19
2 2 2 2 2 2 2 2 2 2
3 1699
```

[Submit solution! \(/submit/TRIALDIV/\)](/submit/TRIALDIV/)[hide comments](#)[ntnguyen \(/users/ntnguyen/\)](/users/ntnguyen/): 2019-12-29 09:57:14

Tks @sapjv!!! :>





sapjv (/users/sapjv): 2019-09-12 23:44:36

Remember : Don't print any extra space after the output for each number!

[Submit solution! \(/submit/TRIALDIV/\)](/submit/TRIALDIV/)

(<https://srv.carbonads.net/ads/click/x/GTND4segment=placement:wwwspojcom;>)

MongoDB Atlas is the most reliable cloud database service available. Try now!

(<https://srv.carbonads.net/ads/click/x/GTND42Q`segment=placement:wwwspojcom>)

Added by: mbk_live (/users/mbk_live)
Date: 2019-01-08
Time limit: 1s
Source limit: 50000B
Memory limit: 1536MB
Cluster: Cube (Intel G860) (/clusters/)
C-CLANG C C++ 4.3.2 CPP
CPP14 CPP14-CLANG C99
Languages: JAVA PYTHON PYTHON3
SWIFT

[About \(/info\)](/info/) | [Tutorial \(/tutorials\)](/tutorials/) | [Tools \(/tools\)](/tools/) | [Clusters \(/clusters\)](/clusters/) | [Credits \(/credits\)](/credits/) | [API \(/sphereengine\)](/api/sphereengine/) | [Widgets \(/sphereengine-widget\)](/sphereengine-widget/)

Legal: [Terms of Service \(/legal-tos/\)](/legal-tos/) | [Privacy Policy \(/legal-pp/\)](/legal-pp/) | [GDPR Info \(/legal-gdpr/\)](/legal-gdpr/)

[RSS \(/rss/\)](/rss/)

Feedback



© Spoj.com. All Rights Reserved. Spoj uses Sphere Engine (http://sphere-engine.com?utm_campaign=permanent&utm_medium=footer&utm_source=spoj)™ © by Sphere Research Labs (http://sphere-research.com?utm_campaign=permanent&utm_medium=footer&utm_source=spoj).