![Graphical user interface, text

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Problem statement:

![Graphical user interface, application

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Example:

![A picture containing text, clipart

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Here subset is given not subsequence .now subset is: ![A picture containing chart

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Either of these conditions to be fulfilled for these questions:

Here subset means pair.

![Text

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Here 1,16,8,4 subset means 1,4 1,8 1,16 and 4,8 4,16 8,16 all such pair divisible to each other and hence largest subset.

![A picture containing text, blackboard

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This will be like longest increasing subsequence. Here we generally deal with subsequence in dp for pick not pick.

Graphical user interface, text

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The lis we get here is.

![A picture containing text, clipart

Description automatically generated]()

Here what we do is that take 1 4/1 comes take in subset and 8/4 now. Yes, it is .it means that if 8/4 then 8/1 will also exist. Same for 16/8 means 16/4 and 16/1 this implies.

This implies it should be sorted.

![A picture containing text, clipart

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This problem can be converted as above.

Code:

![A picture containing text, device, meter, gauge

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![Text

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This above was for LIS but for divisibility.

![Text

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Here already sorted so that consition not needed