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# Integer as a sum of two prime numbers 1

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Problem

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This program takes a positive integer from the user and checks whether that number can be expressed as the sum of two prime numbers.

If the number can be expressed as the sum of two prime numbers, the output shows the combination of the prime numbers.

To perform this task, a user-defined function should be created to check prime number.

## Input Format

One line containing the integer number

## Constraints

$1 \leq n \leq 10000$

## Output Format

Either a single line having 0 meaning that no answer exists Or atleast one line giving number = prime 1 + prime2

## Sample Input 0

```
34
```

## Sample Output 0


```
34 = 3 + 31
34 = 5 + 29
34 = 11 + 23
34 = 17 + 17
```



  Submissions: [136](#)

Max Score: 10

Difficulty: Medium

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C

```
1▼ #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6▼ int main() {
7
8▼     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

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