

628. Maximum Product of Three Numbers

Easy

3.8K

621



Companies

Given an integer array `nums`, find three numbers whose product is maximum and return the maximum product.

Example 1:

Input: `nums = [1,2,3]`

Output: 6

Example 2:

Input: `nums = [1,2,3,4]`

Output: 24

Example 3:

Input: `nums = [-1,-2,-3]`

Output: -6

Constraints:

- $3 \leq \text{nums.length} \leq 10^4$
- $-1000 \leq \text{nums}[i] \leq 1000$

Accepted 269.7K | Submissions 591.3K | Acceptance Rate 45.6%

```
1 class Solution {
2     int maxi(int[] a,int n)
3     {
4         int max=(int)-9999999;
5         int f=-1;
6         for(int i=0;i<n;i++)
7         {
8             if(max<=a[i])
9             {
10                max=a[i];
11                f=i;
12            }
13        }
14        a[f]=(int)-9999999;
15        return max;
16    }
17    int min(int[] a,int n)
18    {
19        int max=(int)9999999;
20        int f=-1;
```

Accepted

Runtime: 0 ms

Case 1

Case 2

Case 3

Input

`nums =`

`[1,2,3]`

Output

6

Expected

Console



Run

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864. Shortest Path to Get All Keys

Hard

1.5K

68

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You are given an $m \times n$ grid `grid` where:

- '.' is an empty cell.
- '#' is a wall.
- '@' is the starting point.
- Lowercase letters represent keys.
- Uppercase letters represent locks.

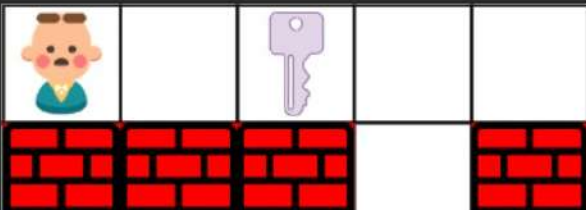
You start at the starting point and one move consists of walking one space in one of the four cardinal directions. You cannot walk outside the grid, or walk into a wall.

If you walk over a key, you can pick it up and you cannot walk over a lock unless you have its corresponding key.

For some $1 \leq k \leq 6$, there is exactly one lowercase and one uppercase letter of the first k letters of the English alphabet in the grid. This means that there is exactly one key for each lock, and one lock for each key; and also that the letters used to represent the keys and locks were chosen in the same order as the English alphabet.

Return the lowest number of moves to acquire all keys. If it is impossible, return `-1`.

Example 1:



```
1 import java.util.*;
2
3 class Solution {
4     public int shortestPathAllKeys(String[] grid) {
5         int m = grid.length;
6         int n = grid[0].length();
7
8         Map<Character, Integer> key_bit = new HashMap<>();
9         int bit_start = 0;
10
11         for (int i = 0; i < m; i++) {
12             for (int j = 0; j < n; j++) {
13                 if (Character.isLowerCase(grid[i].charAt(j))) {
14                     key_bit.put(grid[i].charAt(j), bit_start++);
15                 }
16             }
17         }
18
19         int mask_end = (1 << bit_start) - 1;
20         int mask_size = (1 << bit_start);
```

Testcase Result

Accepted Runtime: 0 ms

Case 1 Case 2 Case 3

Input

```
grid =
["@.a..", "###.#", "b.A.B"]
```

Output

8

Expected

Console



Run

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