

```

22 <?php language_attributes(); ?>
23
24 <?php charset="<?php bloginfo( 'charset' ); ?>"
25 <?php name="viewport" content="width=device-width"
26 <?php rel="profile" href="http://gmpg.org/xfn/11"
27 <?php rel="pingback" href="<?php bloginfo( 'pingback_url' );
28 fruitful_get_favicon(); ?>
29 <!--[if lt IE 9]><script src="<?php echo get_template_directory_uri()
30 <?php wp_head(); ?>
31 </head>
32 <body
33 <?php body_class();?>
34 <div id="page-header" class="hfeed site">
35 <?php
36 $theme_options = fruitful_get_theme_options();
37 $logo_pos = $menu_pos = '';
38 if (isset($theme_options['logo_position']))
39 $logo_pos = esc_attr($theme_options['logo_position']);
40
41 if (isset($theme_options['menu_position']))
42 $menu_pos = esc_attr($theme_options['menu_position']);
43
44 $logo_pos_class = fruitful_get_class($logo_pos);
45 $menu_pos_class = fruitful_get_class($menu_pos);
46
47 $responsive_menu_type = fruitful_get_responsive_menu_type();
48 $responsive_menu_class = fruitful_get_responsive_menu_class($responsive_menu_type);
49
50 <!--[endif]-->
51 </div>
52 </body>
53 </html>

```

# ARRAY

From an Intern and placement perspective, most of the companies won't ask array problems in the hard section i.e., very complex problems. So, for arrays try to explore the **easy and medium problems** much.

## **Note:**

If you have no idea in doing such problems, try to explore the below problems for each day otherwise you can do on your own.

There will be a contest in the array topic at the end of the 4<sup>th</sup> day. Interested students may participate in that also. Test link will be shared later.

**Don't stick only to these questions for preparations. Keep this doc as a kind of guide!** You might have seen these problems somewhere already because these are the most standard ones.

We have also attached the links for quantitative and technical aptitude. Try to explore that also.

## **DAY 1:**

Topics to be covered:

- Array Declaration and Initialization
- Array Traversing
- Pointer Reference to Array
- Handling Arrays in Functions
- Array rotations

Problems:

- 5 easy, 2 medium and 1 hard

Easy:

<https://leetcode.com/problems/kids-with-the-greatest-number-of-candies/>  
<https://leetcode.com/problems/how-many-numbers-are-smaller-than-the-current-number/>  
<https://leetcode.com/problems/running-sum-of-1d-array/>  
<https://leetcode.com/problems/rotate-array/>  
<https://leetcode.com/problems/valid-mountain-array/>

Medium:

<https://leetcode.com/problems/divide-array-in-sets-of-k-consecutive-numbers/>  
<https://practice.geeksforgeeks.org/problems/-rearrange-array-alternately/0>

Hard:

<https://practice.geeksforgeeks.org/problems/next-smallest-palindrome/0>

## **DAY 2:**

Topics to be covered:

- Vectors (in C++)
- Matrix
- Dealing with two array concepts

Problems:

- 4 easy, 3 medium and 2 hard

Easy:

<https://leetcode.com/problems/transpose-matrix/>  
<https://leetcode.com/problems/move-zeroes/>  
<https://leetcode.com/problems/rank-transform-of-an-array/>  
<https://leetcode.com/problems/can-place-flowers/>  
<https://leetcode.com/problems/sort-array-by-parity/>

Medium:

<https://leetcode.com/problems/count-number-of-teams/>  
<https://leetcode.com/problems/queries-on-a-permutation-with-key/>  
<https://leetcode.com/problems/queens-that-can-attack-the-king/>

Hard:

<https://practice.geeksforgeeks.org/problems/merge-two-sorted-arrays/0/>

## **DAY 3:**

Topics to be covered:

- Complex problems
- Trapping Rain water sum
- Subset problems

Problems:

- 3 easy, 4 medium and 1 hard

Easy:

<https://leetcode.com/problems/majority-element/>  
<https://practice.geeksforgeeks.org/problems/spirally-traversing-a-matrix/0>  
<https://leetcode.com/problems/third-maximum-number/>

Medium:

<https://www.geeksforgeeks.org/largest-sum-contiguous-subarray/>\*  
<https://practice.geeksforgeeks.org/problems/trapping-rain-water/0>  
<https://practice.geeksforgeeks.org/problems/rotate-and-delete/0>  
<https://practice.geeksforgeeks.org/problems/minimum-platforms/0/?track=md-arrays&batchId=144>

Hard:

<https://leetcode.com/problems/median-of-two-sorted-arrays/>

#### **Day - 4:**

Problems:

- 3 easy, 5 medium.

Easy:

<https://leetcode.com/problems/check-if-n-and-its-double-exist/>  
<https://practice.geeksforgeeks.org/problems/max-sum-in-the-configuration/1>  
<https://leetcode.com/problems/fair-candy-swap/>

Medium:

<https://leetcode.com/problems/container-with-most-water/>  
<https://practice.geeksforgeeks.org/problems/row-with-max-1s/0>  
<https://practice.geeksforgeeks.org/problems/stock-buy-and-sell/0/?track=md-arrays&batchId=144>  
<https://practice.geeksforgeeks.org/problems/overlapping-intervals/0>  
<https://practice.geeksforgeeks.org/problems/kth-smallest-element/0>

#### **NOTE:**

If you are interested try to explore these links

- <https://www.geeksforgeeks.org/must-do-coding-questions-for-companies-like-amazon-microsoft-adobe/?ref=leftbar#arrays>
- <https://leetcode.com/explore/learn/card/fun-with-arrays/>

#### **APTITUDE:**

<https://www.indiabix.com/aptitude/time-and-distance/>  
<https://www.indiabix.com/aptitude/problems-on-ages/>