

# Problem 90: Subsets II

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 0.00%

**Paid Only:** No

## Problem Description

Given an integer array

nums

that may contain duplicates, return

all possible

subsets

(the power set)

.

The solution set

must not

contain duplicate subsets. Return the solution in

any order

.

Example 1:

Input:

nums = [1,2,2]

Output:

[[],[1],[1,2],[1,2,2],[2],[2,2]]

Example 2:

Input:

nums = [0]

Output:

[[],[0]]

Constraints:

1 <= nums.length <= 10

-10 <= nums[i] <= 10

## Code Snippets

**C++:**

```
class Solution {  
public:  
    vector<vector<int>> subsetsWithDup(vector<int>& nums) {  
  
    }  
};
```

**Java:**

```
class Solution {  
    public List<List<Integer>> subsetsWithDup(int[] nums) {
```

```
}  
}
```

### Python3:

```
class Solution:  
    def subsetsWithDup(self, nums: List[int]) -> List[List[int]]:
```

### Python:

```
class Solution(object):  
    def subsetsWithDup(self, nums):  
        """  
        :type nums: List[int]  
        :rtype: List[List[int]]  
        """
```

### JavaScript:

```
/**  
 * @param {number[]} nums  
 * @return {number[][]}  
 */  
var subsetsWithDup = function(nums) {  
  
};
```

### TypeScript:

```
function subsetsWithDup(nums: number[]): number[][] {  
  
};
```

### C#:

```
public class Solution {  
    public IList<IList<int>> SubsetsWithDup(int[] nums) {  
  
    }  
}
```

**C:**

```

/**
 * Return an array of arrays of size *returnSize.
 * The sizes of the arrays are returned as *returnColumnSizes array.
 * Note: Both returned array and *columnSizes array must be malloced, assume
 caller calls free().
 */
int** subsetsWithDup(int* nums, int numsSize, int* returnSize, int**
returnColumnSizes) {

}

```

**Go:**

```

func subsetsWithDup(nums []int) [][]int {

}

```

**Kotlin:**

```

class Solution {
    fun subsetsWithDup(nums: IntArray): List<List<Int>> {

    }
}

```

**Swift:**

```

class Solution {
    func subsetsWithDup(_ nums: [Int]) -> [[Int]] {

    }
}

```

**Rust:**

```

impl Solution {
    pub fn subsets_with_dup(nums: Vec<i32>) -> Vec<Vec<i32>> {

    }
}

```

## Ruby:

```
# @param {Integer[]} nums
# @return {Integer[][]}
def subsets_with_dup(nums)

end
```

## PHP:

```
class Solution {

    /**
     * @param Integer[] $nums
     * @return Integer[][]
     */
    function subsetsWithDup($nums) {

    }

}
```

## Dart:

```
class Solution {
  List<List<int>> subsetsWithDup(List<int> nums) {

  }

}
```

## Scala:

```
object Solution {
  def subsetsWithDup(nums: Array[Int]): List[List[Int]] = {

  }

}
```

## Elixir:

```
defmodule Solution do
  @spec subsets_with_dup(nums :: [integer]) :: [[integer]]
  def subsets_with_dup(nums) do
```

```
end
end
```

### Erlang:

```
-spec subsets_with_dup(Nums :: [integer()]) -> [[integer()]].
subsets_with_dup(Nums) ->
.
```

### Racket:

```
(define/contract (subsets-with-dup nums)
  (-> (listof exact-integer?) (listof (listof exact-integer?)))
)
```

## Solutions

### C++ Solution:

```
/*
 * Problem: Subsets II
 * Difficulty: Medium
 * Tags: array
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(1) to O(n) depending on approach
 */

class Solution {
public:
    vector<vector<int>> subsetsWithDup(vector<int>& nums) {

    }
};
```

### Java Solution:

```
/**
 * Problem: Subsets II
```

```

* Difficulty: Medium
* Tags: array
*
* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(1) to O(n) depending on approach
*/

class Solution {
public List<List<Integer>> subsetsWithDup(int[] nums) {

}
}

```

### Python3 Solution:

```

"""
Problem: Subsets II
Difficulty: Medium
Tags: array

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(1) to O(n) depending on approach
"""

class Solution:
def subsetsWithDup(self, nums: List[int]) -> List[List[int]]:
# TODO: Implement optimized solution
pass

```

### Python Solution:

```

class Solution(object):
def subsetsWithDup(self, nums):
"""
:type nums: List[int]
:rtype: List[List[int]]
"""

```

### JavaScript Solution:

```

/**
 * Problem: Subsets II
 * Difficulty: Medium
 * Tags: array
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
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 */

/**
 * @param {number[]} nums
 * @return {number[][]}
 */
var subsetsWithDup = function(nums) {

};

```

### TypeScript Solution:

```

/**
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 * Difficulty: Medium
 * Tags: array
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
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 */

function subsetsWithDup(nums: number[]): number[][] {

};

```

### C# Solution:

```

/*
 * Problem: Subsets II
 * Difficulty: Medium
 * Tags: array
 *
 * Approach: Use two pointers or sliding window technique

```



```

* Time Complexity: O(n) or O(n log n)
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*/

public class Solution {
public IList<IList<int>> SubsetsWithDup(int[] nums) {

}

}

```

### C Solution:

```

/*
* Problem: Subsets II
* Difficulty: Medium
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* Return an array of arrays of size *returnSize.
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* Note: Both returned array and *columnSizes array must be malloced, assume
caller calls free().
*/
int** subsetsWithDup(int* nums, int numsSize, int* returnSize, int**
returnColumnSizes) {

}

```

### Go Solution:

```

// Problem: Subsets II
// Difficulty: Medium
// Tags: array
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)

```

```
// Space Complexity: O(1) to O(n) depending on approach

func subsetsWithDup(nums []int) [][]int {

}
```

### Kotlin Solution:

```
class Solution {
    fun subsetsWithDup(nums: IntArray): List<List<Int>> {

    }
}
```

### Swift Solution:

```
class Solution {
    func subsetsWithDup(_ nums: [Int]) -> [[Int]] {

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### Rust Solution:

```
// Problem: Subsets II
// Difficulty: Medium
// Tags: array
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(1) to O(n) depending on approach

impl Solution {
    pub fn subsets_with_dup(nums: Vec<i32>) -> Vec<Vec<i32>> {

    }
}
```

### Ruby Solution:

```
# @param {Integer[]} nums
# @return {Integer[][]}
def subsets_with_dup(nums)

end
```

### PHP Solution:

```
class Solution {

    /**
     * @param Integer[] $nums
     * @return Integer[][]
     */
    function subsetsWithDup($nums) {

    }

}
```

### Dart Solution:

```
class Solution {
  List<List<int>> subsetsWithDup(List<int> nums) {

  }

}
```

### Scala Solution:

```
object Solution {
  def subsetsWithDup(nums: Array[Int]): List[List[Int]] = {

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### Elixir Solution:

```
defmodule Solution do
  @spec subsets_with_dup(nums :: [integer]) :: [[integer]]
  def subsets_with_dup(nums) do

  end
end
```

```
end
```

### Erlang Solution:

```
-spec subsets_with_dup(Nums :: [integer()]) -> [[integer()]].  
subsets_with_dup(Nums) ->  
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