## 121. Subset Generation AIM: To find the Subset Generation by using backtracking PROGRAM: def subsets(nums): """ Function to generate all subsets using backtracking """ result = [] subset = [] def backtrack(start): result.append(subset[:]) for i in range(start, len(nums)): subset.append(nums[i]) backtrack(i + 1) subset.pop() backtrack(0) return result nums = [1, 2, 3] print("Subsets of", nums, ":") print(subsets(nums)) Subsets of [1, 2, 3]: [[], [1], [1, 2], [1, 2, 3], [1, 3], [2], [2, 3], [3]]

OUTPUT:

TIME COMPLEXITY: O(2N\*N)