模版·回溯法(子集总和问题)

```
public class SubsetSum{
public static List<List<Integer>> subsetSum(int[] nums,int target){
     List<List<Integer>> result=new ArrayList<>();
     backtrack(nums,0,target,new ArrayList<>(),result);
     return result;
}
private static void backtrack(int[] nums,int startIndex,int target,List<Integer> current,List<List<Integer>> result){
     if(target==0){
         result.add(new ArrayList<>(current));
         return;
    }
    for(int i=startIndex;i<nums.length;i++){</pre>
         if(nums[i]>target){
            break;
         current.add(nums[i]);
         backtrack(nums,i+1,target-nums[i],current,result);
         current.remove(current.size()-1);
    }
}
public static void main(String[] args){
     int[] nums={2,3,4,5,6,7};
     int target=7;
     List<List<Integer>> result=subsetSum(nums,target);
     System.out.println("满足目标总和"+target+"的子集: ");
     for(List<Integer> subset:result){
         System.out.println(subset);
}
```