

First Name:

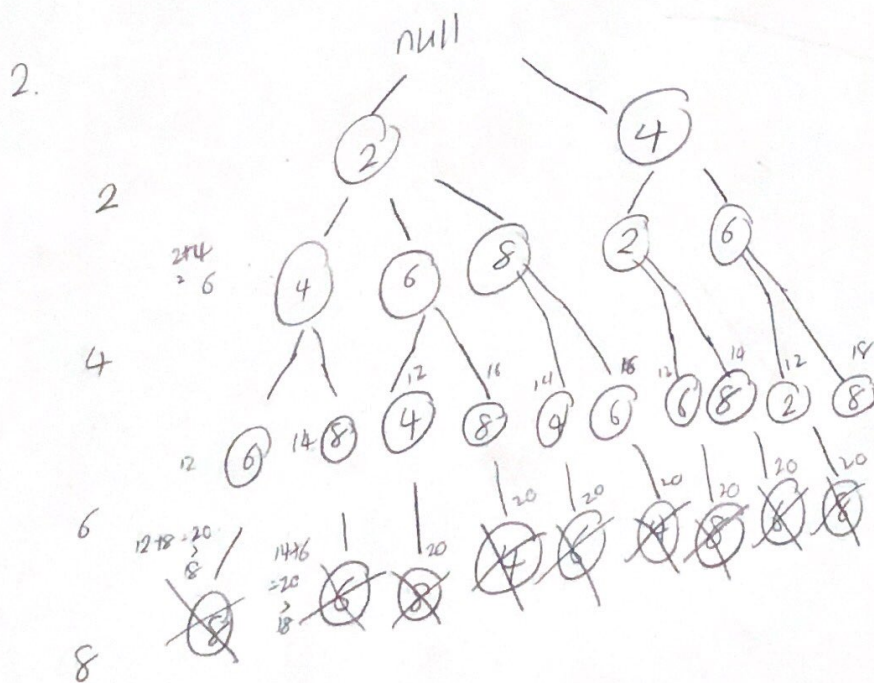
Last Name:

Problem 1 (8 points) Write down the first **8** permutations generated by the Johnson and Trotter's algorithm in correct order for the input (a, b, c, d). (Your answer include the input.)

Problem 2 (8 points) Give the set 2, 4, 6, 8. Show the **tree** using backtracking to find the first subset whose sum is equal to 18. The backtracking could be terminated when one solution is found.

score: ____16

1. ABCD
ABDC
ADBC
DABC
DACB
ADCB
ACDB
ACBD



Therefore, the first subset whose sum equal to 18 is (4, 6, 8)

cs330su21-a.sg


[Dashboard](#) / [My courses](#) / [cs330su21-a.sg](#) / [Week 10 \(12 July - 18 July\)](#) / [Quiz1 - Brute Force](#)

Quiz1 - Brute Force

 [CS330_Q1-Summer-2021.pdf](#)

13 July 2021, 10:30 AM


Submission status

Submission status	Submitted for grading		
Grading status	Graded		
Due date	Tuesday, 13 July 2021, 12:40 PM		
Time remaining	Assignment was submitted 2 mins 53 secs early		
Last modified	Tuesday, 13 July 2021, 12:37 PM		
File submissions	 CS330 GOHWEIZHE QUIZ1.pdf	13 July 2021, 12:37 PM	
Submission comments	▶ Comments (0)		

Edit submissionRemove submission

You can still make changes to your submission.

Feedback

Grade	16.00 / 16.00		
Graded on	Tuesday, 13 July 2021, 11:16 PM		
Graded by		Hong Wei CHUA	

[◀ Attendance cs330su21-a.sg Thursday 15/07/2021 11:00am-12:40pm](#)

Jump to...

⌵

[Attendance cs330su21-a.sg Thursday 22/07/2021 11:00am-12:40pm ▶](#)