

# CSE708 Coding Assignment 2

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- **Problem Description:** You will be given the degree sequence  $D = (d_1, d_2, d_3, \dots, d_n)$ . It is not necessary that the given sequence will be sorted. You'll have to assess whether it is possible to create a simple graph that has the same degree sequence. If it is, then create at least one such graph having  $D$  as its degree sequence and output its edges.
- **Input:** In the first line of the input, you will be given an integer  $n$  which is the number of vertices. In the next line, there will be  $n$  space separated integers  $d_1, d_2, d_3, \dots, d_n$ .
- **Output:** If the sequence is not graphic, then just print -1. Otherwise, You will output  $\frac{\sum_{i=1}^n d_i}{2}$  line each line containing two vertex  $a$  and  $b$  which are separated by a single space and  $1 \leq a \neq b \leq n$ .
- **Sample Input:**  
6  
5 4 3 3 2 1
- **Sample Output:**  
1 2  
1 3  
1 4  
1 5  
1 6  
6 3  
6 4  
6 5  
5 3
- **Submission and Deadline:** Zip the "code.cpp" in a folder called with the format "id\_name". For example, "19201111\_MD\_ZAHIDUL\_HASAN". And mail me at: zadid.hasan@bracu.ac.bd before september 4, 2020. The subject of the mail should be "CODE\_2" without the quotes.