

1. Suppose you are given the following assembly.

- CTCT (length:4)
- ACGGTT (length:6)
- TCTCTGAGG (length:9)
- AAAC (length:4)
- GGG (length: 3)
- AGAG (length: 4)

total = 4 + 6 + 9 + 4 + 3 + 4
 = 30, half is 15
 so we can use 9 + 6 = 15

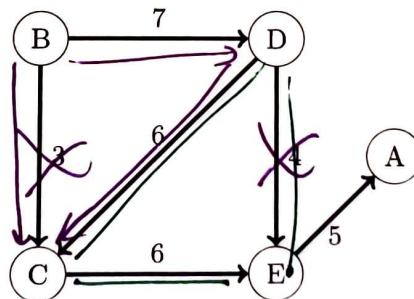
(a) What is the N50 score for this assembly?

6

(b) What is the L50 score for this assembly?

2 use 2 contigs (9 + 6)

2. Consider the following overlap graph (details on the sequences stored in each node have been removed for space and have been replaced with a node label). Draw the graph after removal of all transitive edges (there are 2 such edges).



Transitive - edges

