

## Algorithms for bioinformatics and Bioinformatics module 1

July 27th 2021

Lab part:

Modify your code according to the following requirement:

The modified version of the program must return all the alignments satisfying the following conditions:

1) at least 1 occurrence of at least 3 consecutive matches

2) score  $\geq$  60% of the maximum scoring alignment

Alignments satisfying the 2 conditions should be ordered by their longest streak of consecutive matches (from the longest to the shortest).

Overlaps in trace-back paths are allowed.

Make assumptions about what is not specified.

Please do not ask questions.

time: 2 hours

send the program to [t.tebaldi@unitn.it](mailto:t.tebaldi@unitn.it) AND [enrico.blanzieri@unitn.it](mailto:enrico.blanzieri@unitn.it)