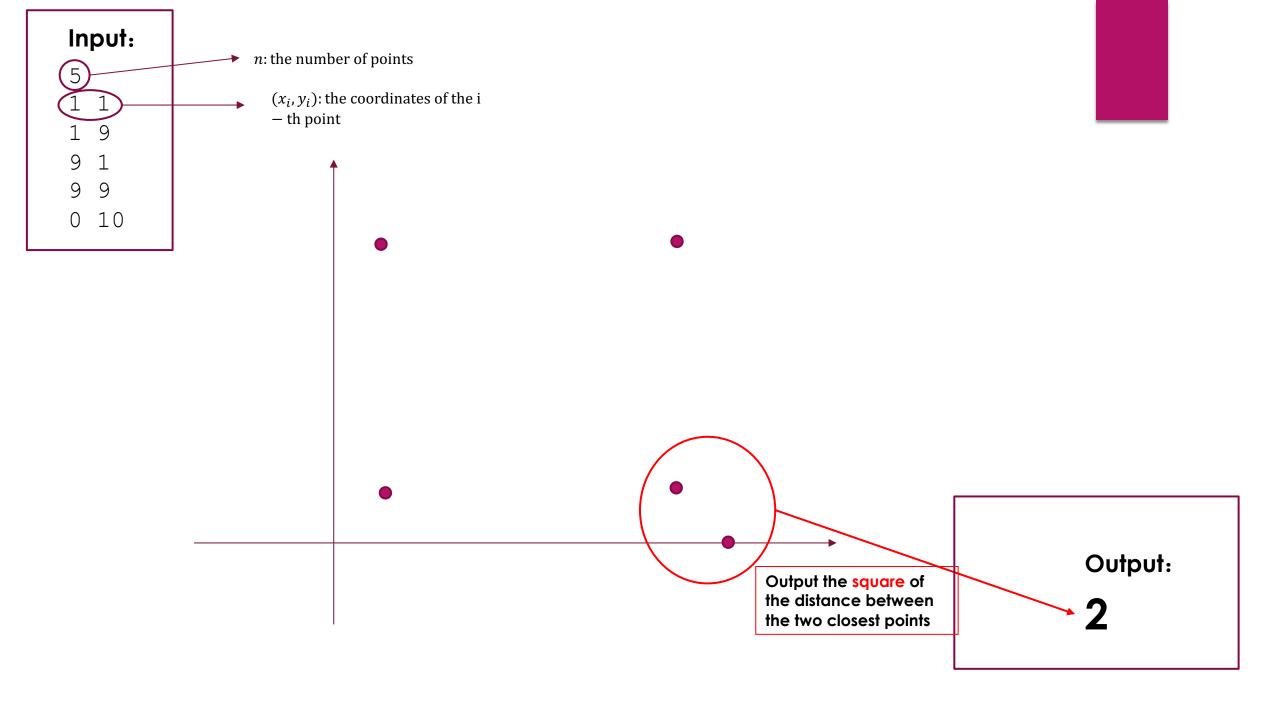
Lab8 Questions

YAO ZHAO

Lab8.A Closest

 \blacktriangleright Given n points on a two-dimensional plane, please find the closest pairs of points.



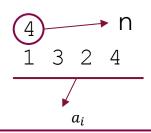
Lab8.B Urban Construction(1)

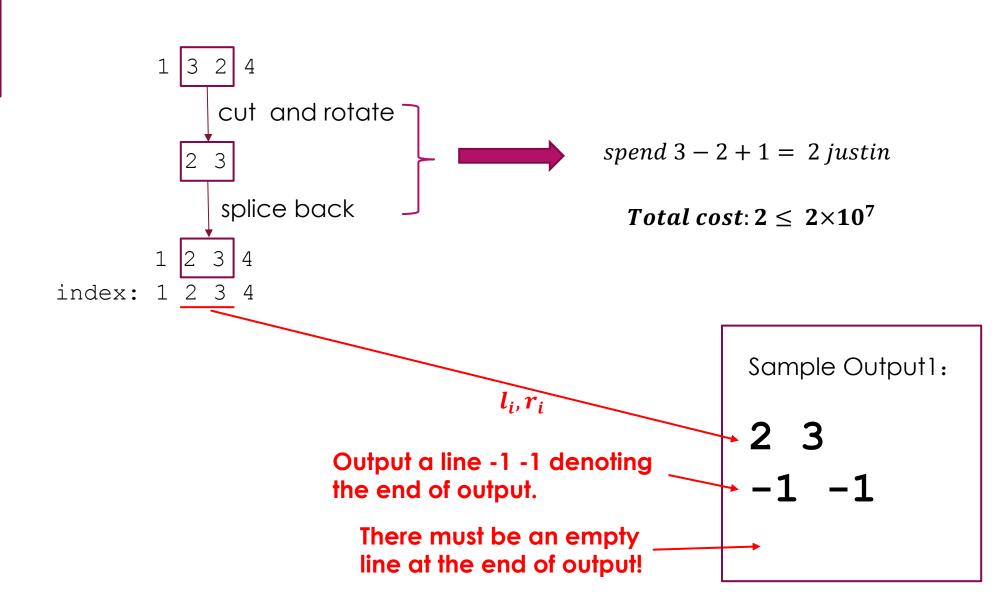
- ▶ Sjkmost persuaded Justin to force his citizens to trip with zipline. However, the citizens are too not strong enough and the citizens often fell from the zipline. Therefore, they decided to provide the citizens with some cable cars. Now Sjkmost is preparing the cable cars.
- ▶ There are n cable cars on the cable, each has an index a_i . **Sijmost** is trying to put them in order.
- Sjkmost can spend c justin (a type of currency) to cut down a segment of rope of length c, rotate it and splice back. That is, he can spent r-l+1 justin to rotate the cable cars in an interval.

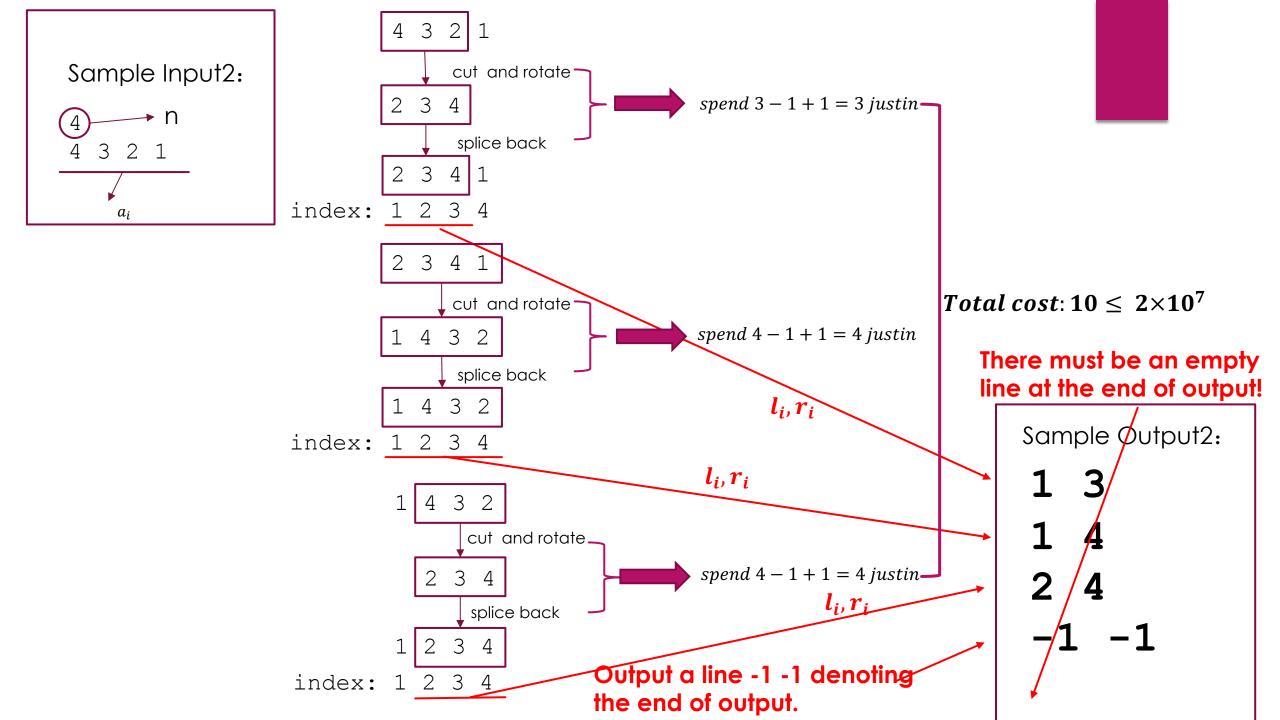
Lab8.B Urban Construction(2)

- Sjkmost has a budget of 2×10^7 justin. He should sort the cable cars with some operations with a total cost no more than 2×10^7 justin. But he is so good at sorting that this problem is too boring for him.
- ▶ Ihyyy, who is not good at graph theory at all and got lost in Justin's city, luckily met Justin at last. Now he doesn't know how to leave the city. If he can help sort the cable cars for Sjkmost, Sjkmost will tell him how to leave. However, lhyyy is not good at sorting as well. Can you help him?

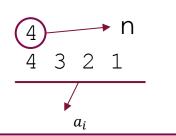




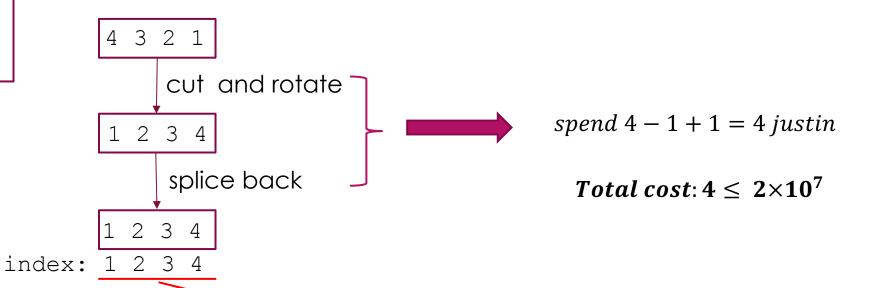








If there are multiple solutions, you can print any of them.



Output a line -1 -1 denoting the end of output. $\begin{array}{c} 1 & 4 \\ -1 & -1 \end{array}$ There must be an empty line at the end of output!

Sample Output2: