

We are aiming to separate the dataset into two groups based on one of the following conditions.

A) Each pair of instances with *euclidean distance* less than 'd' are in the same group.

B) Each pair of instances with *cosine similarity* more than 's' are in the same group.

Now our objective is to separate the dataset into only two groups.

Write *two* scripts which one of them satisfies just condition(A) and find a value for 'd' , other satisfies just condition(B) and find a value for 's'.

Output files :

1. Nth line of output file is 0 or 1 that indicates the label of Nth instance of input dataset.
  2. Set label of first instance to 0, i.e, first line of output files is 0.
  3. Last line of files is a number as 'd' or 's'.
- **Important :** codes must include comments explaining your given algorithm explicitly.
  - Send two code files and corresponding outputs in a zip file named your student id to [maaz1377.aa@gmail.com](mailto:maaz1377.aa@gmail.com) . Write HW3\_LA as email subject.

*Deadline : 99/3/4*

**Don't copy instead, do your best**