

TD 01

Questions and Answers

- By creating an index the data will increase in term of size:
 True.
 False.
- Unstructured data means:
 Has clear semantic forms.
 Has not clear semantic forms.
- Information retrieval goal is:
 Build index of data.
 Retrieve largest document in the collection.
 Retrieve non-relevant documents to a user query.
 Retrieve relevant documents to a user query.
- Information retrieval match query directly to document data (ex: PDF file):
 True.
 False.
- Describe steps for the following: Given a set of documents, find the documents that contain information about a particular topic.
 - Start by identifying the key words or phrases associated with the topic.
 - Use a search engine to search for documents that contain these keywords or phrases.
 - Review the results and select documents that are relevant to the topic.
 - Read the documents carefully and determine if they contain information about the topic.
 - Save the relevant documents for further analysis.

Data Structure & Algorithms

- $T = \{15, 25, 36, 1, 1, 25, 63, 8, 8, 8, 1, 1, 1, 8, 9, 8, 96, 8\}$.
 - Valeur retournée = 6 ;
 - Le plus grand nombre d'occurrences dans le tableau
 - $O(n^2)$
 - Trier le tableau en utilisant un meilleur algorithme de tri pour arriver à une complexité en $O(n \log(n))$, puis parcourir le tableau en complexité linéaire afin de retourner la valeur qui exprime le nombre d'occurrence de l'élément qui se répète le plus .

```
int Fun(int[] array)
{
    int i = 0, j = 0, m = 0, c = 0;
    while (i < array.Length)
    {
        if (array[i] == array[j])
            c++;
        j++;
        if (j >= array.Length)
        {
            if (c > m)
                m = c;
            c = 0;
            i++;
            j = i;
        }
    }
    return m;
}
```