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String Matching?

String Matching tersusun dari kata "String" dan "Matching".

 String adalah sebuah tipe data yang menyimpan satu karakter atau lebih seperti huruf/ angka.

Contohnya: String tulisan = "Hello World"

 Matching adalah sebuah proses mencocokkan sesuatu dengan yang lainnya. rem Ipsum is simply dummy text of the printing and typesetting industry. Lorem n the industry's standard dummy text ever since the 1500s, when an unknow alley of type and scrambled it to make a type specimen book. It has surviyed turies fout also the leap into electronic typesetting, remaining essentially un ulacised in the 1960s with the release of Letraset sheets containing Lorent I more resently with desktop publishing software like Aldus PageMaker including version m Ipsum. Conserv to popular belief, Lorem Ipsum is not simply random text. It has roots e of classical Latin literature **String**, **Matching** years old. Richard McClin atin professor at Hampden-Sydney College in Virginia, looked up one of the more obsc Sebuah proses untuk mencocokkan sebuah string dengan string lainnya. ero. written in 45 BC. This book is a treatise on the theory of ethics, very popular during aissance. The first line of Lyrem Ipsum, "Lorem ipsum dolor sittamet..", comes from a li The standard chunk of Lorem Ipsum used since the 1500s is reproduced below for those rested. Section 1.10.32 and 1.10.83 from "de Finibus Bonorum et Malorum" by Cicero so reproduced in their exact original form, accompanied by English versions from

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Dapat membantu kita dengan mudahnya mencari ada tidaknya sebuah pattern dalam sebuah text.

Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots

Note: of "de Finibus Bonorum et Malorum" (The Extremes of Good

Pattern adalah sebuah string yang digunakan untuk mengecek ada tidaknya kemunculan string ini pada text tersebut.

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CHAPTER 2

The Four Dynamic Forces Shaping Al

There are four basic ingredients for making AI: data, compute resources (i.e., hardware), algorithms (i.e., software), and the talent to put it all together. In this era of deep learning ascendancy, it has become conventional wisdom that data is the most differentiating and defensible of these resources; companies like Google and Facebook spend billions to develop and provide consumer services, largely in order to amass information about their users and the world they inhabit. While the original strategic motivation behind these services was to monetize that data via ad targeting, both of these companies-and others desperate to follow their lead-now view the creation of AI as an equally important justification for their massive collection efforts.

Abundance and Scarcity of Ingredients

While all four pieces are necessary to build modern AI systems, what we'll call their "scarcity" varies widely. Scarcity is driven in large part by the balance of supply and demand: either a tight supply of a limited resource or a heavy need for it can render it more scarce. When it comes to the ingredients that go into AI, these supply and demand levels can be influenced by a wide range of forcesnot just technical changes, but also social, political, and economic

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AI and Medicine.

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Evaluating Machine Learning Models.

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Going Pro in Data Science.

Introduction to Machine Learning with Python.

Mapping Big Data.

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The New Artificial Intelligence Market.

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```
package string.matching;
import java.util.Scanner;
import java.io.File;
import java.io.FileNotFoundException;
  * @author Vincent
public class StringMatching {
     static boolean empty = true;
     public static void StringMatching(String T, String P) {
         T=T.toLowerCase();
         P=P.toLowerCase();
         for(int i=0;i<T.length()-P.length();i++){</pre>
             int indexawal = i;
             for(int j=0;j<P.length();j++){</pre>
                     if(T.charAt(i) == P.charAt(j) && j == (P.length()-1)){}
                          System.out.println("Found at index "+indexawal);
                          i=indexawal;
                          empty = false;
                     else if(T.charAt(i)==P.charAt(j)){
                             i++;
                     else{
                            i=indexawal;
```

```
public static void main(String[] args) throws FileNotFoundException {
   Scanner s = new Scanner(System.in);
     File file = new File("D:\\dna.txt");
   File file = new File("D:\\lorenipsum.txt");
   Scanner sc = new Scanner(file);
   String T = "";
   while (sc.hasNextLine())
        T+=sc.nextLine();
   System.out.println(T);
   String P = s.nextLine();
   StringMatching(T,P);
   if(empty == true){
        System.out.println("("+P+")"+" not found in text.");
```

de Finibus Bonorum et Malorum"

rem Ipsum is simply dummy text of the printing and typesetting industry. Loren is the industry of sandard dummy text of the printing and typesetting industry. Loren is the industry of sandard dummy text of the industry of two and acrambled it to make a tope specimen book. It has survived in

exact original torm, accompanied

```
package stringbooks;
import java.io.File;
  import java.io.FileNotFoundException;
   import java.util.Scanner;
    * @author Vincent
   public class StringBooks {
       static boolean empty = true;
       public static void StringMatching(String T, String P) {
           T=T.toLowerCase();
           P=P.toLowerCase();
           for(int i=0;i<T.length()-P.length();i++){</pre>
               if(empty==true){
                    int indexawal = i;
                    for(int j=0;j<P.length();j++){</pre>
                        if(empty==true){
                            if (T.charAt(i) == P.charAt(j) && j == (P.length()-1)) {
                                System.out.println("Found !");
                                i=indexawal;
                                empty = false;
                            else if(T.charAt(i)==P.charAt(j)){
                                    i++;
```

```
tracet cheete containi
                               i=indexawal;
                               break;
      public static void main(String[] args) throws FileNotFoundException {
          Scanner s = new Scanner(System.in);
          File file = new File("D:\\mybooks.txt");
          Scanner sc = new Scanner(file);
         String T = "";
          while (sc.hasNextLine())
              T+=sc.nextLine();
          System.out.println(T);
          String P = s.nextLine();
          StringMatching(T,P);
         if(empty == true){
             System.out.println(P+" not found.");
```

setting, remaining essential

rem/psum is simply dummy text of the printing and typesetting industry. Lorem Ipsum h the industry's standard dummy text ever single the 1500s, when an unknown printer to alley of type and scrambled it to make a type specimen book. It has survived not only five turies, but also the least into electronic typesetting remaining essentially unchanged. It disrised in the 1960s with the release of Leffases sheets containing Lorem Ipsum passa more recently with desktop publishing software like Aldus PageMakek including version m Ipsum. Contrary to popular belief, Krem/Ipsum is not simply random text. It has roots e of classical Latin literature from 45 BC/making it over 2000 years add. Richard McClin atin professor at Hampden-Sydney Coll 1915 (2015) (20 classical literature, discovered the undoubtable source. 0.32 and 1.10.33 of "de Finibus Bonor for Watching" ero, written in 48 Be. This book is a tref of the Watching aissance Tie fest the of Lorem Ipsum, "Lorem ipsum dolor sit amet..", comes from section 1.10.32. Vincent Junitio Ungu he standard chunk of Lorem I since the 118/427597/PA/18557 om "de Finibus Bonorum et Malorum" by Cicero so reproduced in their exact a orm, accompanied by English versions from the 19