# Laporan Tugas Kecil IF 2211 Strategi Algoritma Word Search Puzzle



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2022

# I. Langkah-langkah Pencarian Kata di Puzzle Menggunakan Algoritma Brute Force

- 1. Sebelum melakukan pencarian kata, program menerima input berupa nama file dari user sesuai dengan directory lokasi file tersebut terhadap program. Diasumsikan isi dari file selalu benar sesuai spesifikasi.
- 2. Program akan memetakan puzzle ke dalam sebuah matrix berukuran puzzle dari file. Kemudian keyword akan dipetakan ke dalam sebuah array.
- 3. Langkah pencocokan kata dilakukan secara sekuensial. Mula-mula ditelusuri dari kanan ke kiri kemudian lanjut ke bawah pada matriks puzzle sampai:
  - karakter pertama kata kunci sama, akan mulai dibandingkan tiap char keyword dengan matriks puzzle dimulai arah ke kanan, bawah, kiri, atas, serong atas kiri, serong bawah kanan, serong kiri bawah, dan serong atas bawah.
  - dijumpai karakter yang tidak sama
- 4. Bila tidak ditemukan kata tersebut dalam puzzle, maka akan lanjut ke keyword berikutnya.
- 5. Jika sampai akhir kata keyword cocok dengan matrix, maka akan mengeluarkan output letak kata tersebut dalam puzzle.

#### II. Source Code

Program ini menggunakan Bahasa c++.

```
/*Nama: Angelica Winasta Sinisuka
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Tanggal: 24 Januari 2022
Deskripsi: Membuat program word search menggunakan algoritma brute force dengan bahasa
#include <stdio.h>
#include <stdlib.h>
#include <iostream>
#include <fstream>
#include <string>
#include <cmath>
#include <chrono>
using namespace std;
int main(){
    string filename;
    cout << "Put in file name (ending with .txt): ";</pre>
    cin >> filename;
    ifstream theFile(filename);
    string lines;
    string puzzle[100];
```

```
string key[100];
    int countp = 0;
    int countk = 0;
    bool nextline = true;
    // Mengambil tiap line pada txt file
    while (getline(theFile, lines)){
        if (lines[1] != ' '){
            nextline = false;
        if (nextline){
            puzzle[countp] = lines;
            countp++;
        else{
            key[countk] = lines;
            cout << key[countk] << endl;</pre>
            countk++;
    // Memproses tiap line ke tipe data yang diassign, puzzle dan keyword
    // hasil: matrix
    // keyword: array[0..jmlkey]
    char n[puzzle[0].length()];
    int i = 0;
    int j = 0;
    int k = 0;
    int jumlah = puzzle[0].length();
    char hasil[countp-1][jumlah];
    while (i < countp-1){
        k = 0;
        for (j = 0; j < jumlah; j++){}
            if (puzzle[i][j] != ' '){
                hasil[i][k] = puzzle[i][j];
                k++;
        i++;
    auto mulai = std::chrono::high resolution clock::now();
    // menyocokan keyword dengan puzzle
    i = 0;
    bool samefirstletter = false;
    while (i < countk){ // traversal untuk mengecek tiap keyword secara sekuensial</pre>
        bool continues = true;
        int totalbanding = 0;
        int p = 0;
```

```
while (p < countp-1 && continues){</pre>
    int q = 0;
    while ((q<k) && continues){
        totalbanding++;
        if (key[i][0] == hasil[p][q]){
            samefirstletter = true;
        else{
            samefirstletter = false;
        if (samefirstletter){
            int valid = 0;
            bool valid1 = true;
            bool valid2 = false;
            bool valid3 = false;
            bool valid4 = false;
            bool valid5 = false;
            bool valid6 = false;
            bool valid7 = false;
            bool valid8 = false;
            bool validtes = true;
            int count = 1;
            j = 1;
            while (j < key[i].length()&& valid == 0 && validtes ){</pre>
                totalbanding++;
                if (valid1){// right
                     valid1 = key[i][j] == hasil[p][q+j];
                     if (valid1 == false | | q+j > k \rangle
                         valid2 = true;
                         valid = 0;
                         count = 1;
                         j = 1;
                     else{
                         count++;
                         if (count == key[i].length()){
                             valid = 1;
                         }
                if (valid2){// down
                     valid2 = key[i][j] == hasil[p+j][q];
                     if (valid2 == false || p+j > countp-1){
                         valid3 = true;
                         valid = 0;
                         count = 1;
                         j = 1;
                     }
                     else{
                         count++;
```

```
if (count == key[i].length()){
            valid = 2;
if (valid3){// left
    valid3 = key[i][j] == hasil[p][q-j];
    if (valid3 == false || q-j < 0){
        valid4 = true;
        valid = 0;
        count = 1;
        j = 1;
    else{
        count++;
        if (count == key[i].length()){
            valid = 3;
        }
if (valid4){ // up
    valid4 = key[i][j] == hasil[p-j][q];
    if (valid4 == false || p-j < 0){</pre>
        valid5 = true;
        count = 1;
        valid = 0;
        j = 1;
    else{
        count++;
        if (count == key[i].length()){
            valid = 4;
        }
if (valid5){// up left
    valid5 = key[i][j] == hasil[p-j][q-j];
    if (valid5 == false || p-j < 0 || q-j < 0){</pre>
        valid6 = true;
        count = 1;
        valid = 0;
        j = 1;
    else{
        count++;
        if (count == key[i].length()){
            valid = 5;
```

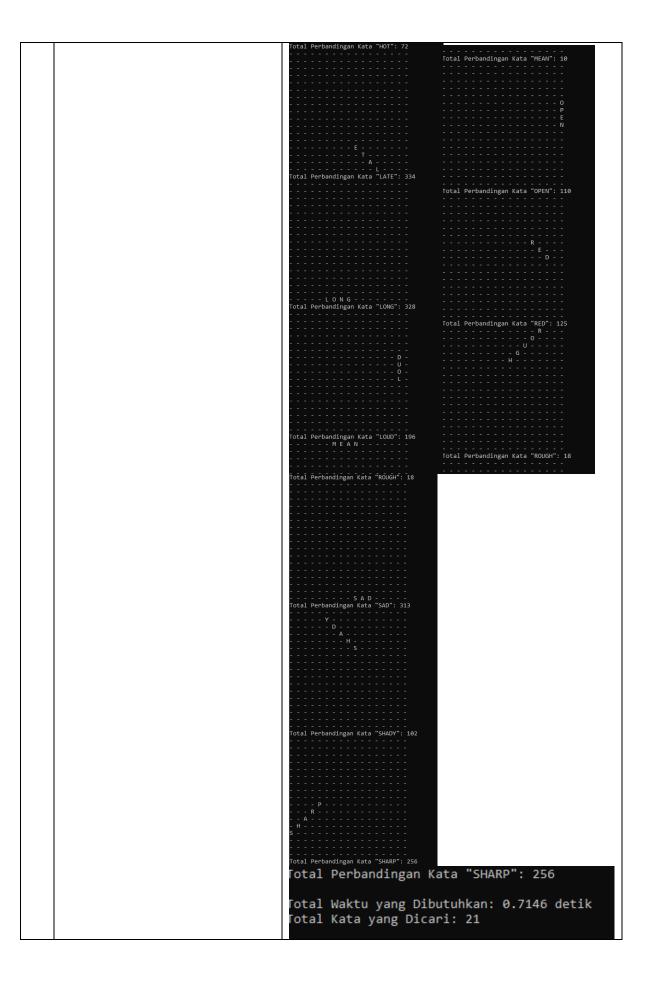
```
if (valid6){// down right
        valid6 = key[i][j] == hasil[p+j][q+j];
        if (valid6 == false \mid \mid p+j > countp-1 \mid \mid q+j > k ){
            valid7 = true;
            count = 1;
            valid = 0;
            j = 1;
        else{
            count++;
            if (count == key[i].length()){
                valid = 6;
    if (valid7){// down left
        valid7 = key[i][j] == hasil[p+j][q-j];
        if (valid7 == false || p+j > countp-1 || q-j < 0){
            valid8 = true;
            count = 1;
            valid = 0;
            j = 1;
        else{
            count++;
            if (count == key[i].length()){
                valid = 7;
            }
    if (valid8){// up right
        valid8 = key[i][j] == hasil[p-j][q+j];
        if (valid8 == false || p-j < 0 || q+j > k){
            validtes = false;
        else{
            count++;
            if (count == key[i].length()){
                valid = 8;
        }
    j++;
if (valid <= 8 && valid >= 1){
    continues = false;
    char jawaban [countp-1][k];
```

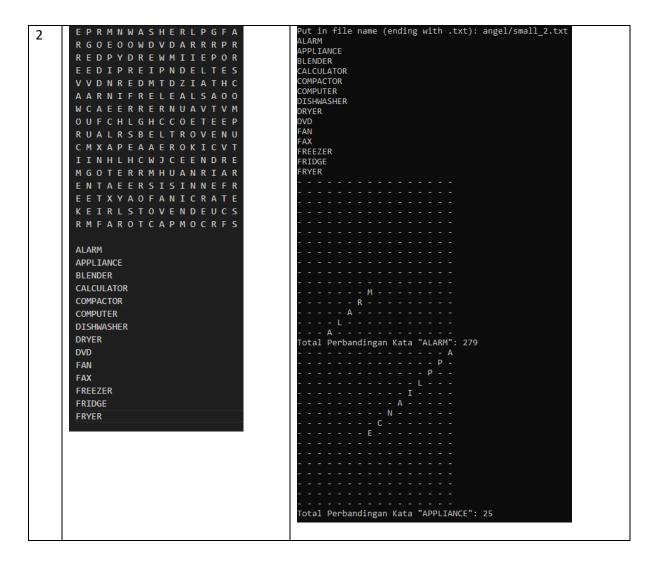
```
for (int m = 0; m < countp-1; m++){</pre>
                             for (int n = 0; n < k; n++){
                                 jawaban [m][n] = '-';
                         for (int l = 0; l < key[i].length(); l++){}
                             if (valid == 1){
                                 jawaban[p][q+1] = key[i][1];
                             else if (valid == 2){
                                 jawaban[p+1][q] = key[i][1];
                             else if (valid == 3){
                                 jawaban[p][q-1] = key[i][1];
                             else if (valid == 4){
                                 jawaban[p-1][q] = key[i][1];
                             else if (valid == 5){
                                 jawaban[p-1][q-1] = key[i][1];
                             else if (valid == 6){
                                 jawaban[p+1][q+1] = key[i][1];
                             else if (valid == 7){
                                 jawaban[p+1][q-1] = key[i][1];
                             else if (valid == 8){
                                 jawaban[p-1][q+1] = key[i][1];
                         for (int m = 0; m < countp-1; m++){</pre>
                             for (int n = 0; n < k; n++){
                                 printf("%c ", jawaban[m][n]);
                             printf("\n");
                         cout << "Total Perbandingan Kata \"" << key[i] << "\": "</pre>
<< totalbanding << endl;
                q++;
            p++;
        i++;
        samefirstletter = false;
    }
```

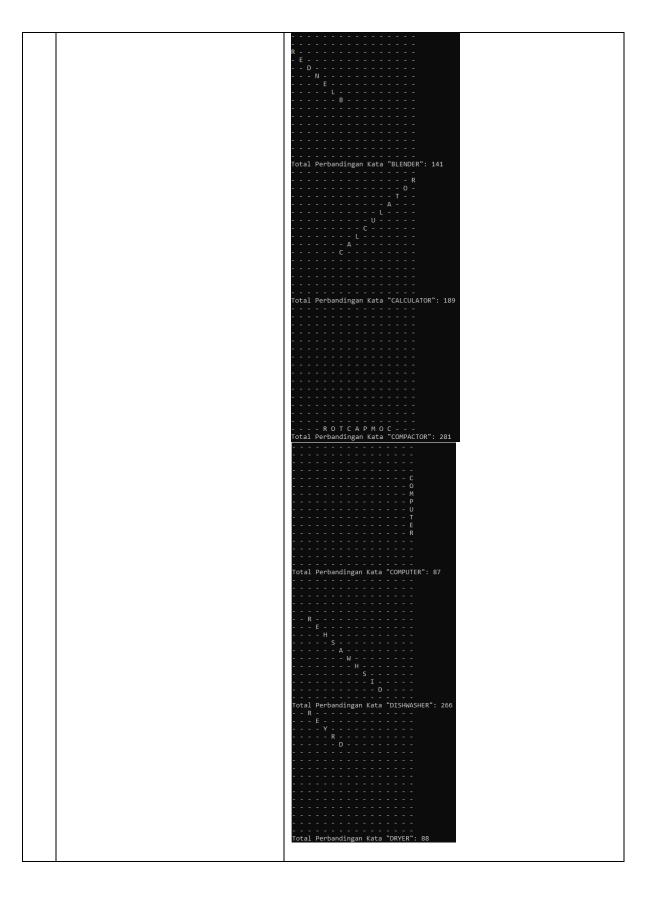
```
auto akhir = std::chrono::high_resolution_clock::now();
  auto irisan = std::chrono::duration_cast<std::chrono::nanoseconds>(akhir -
mulai);
  printf("\nTotal Waktu yang Dibutuhkan: %.4f detik\n", irisan.count()*1e-9);
  if (countk == '\0'){
     printf("Total Kata yang Dicari: 0\n\n");
     printf("Make sure file name is correct!\n");
  }
  else{
     printf("Total Kata yang Dicari: %d\n", countk+1);
  }
}
```

## III. Test Case

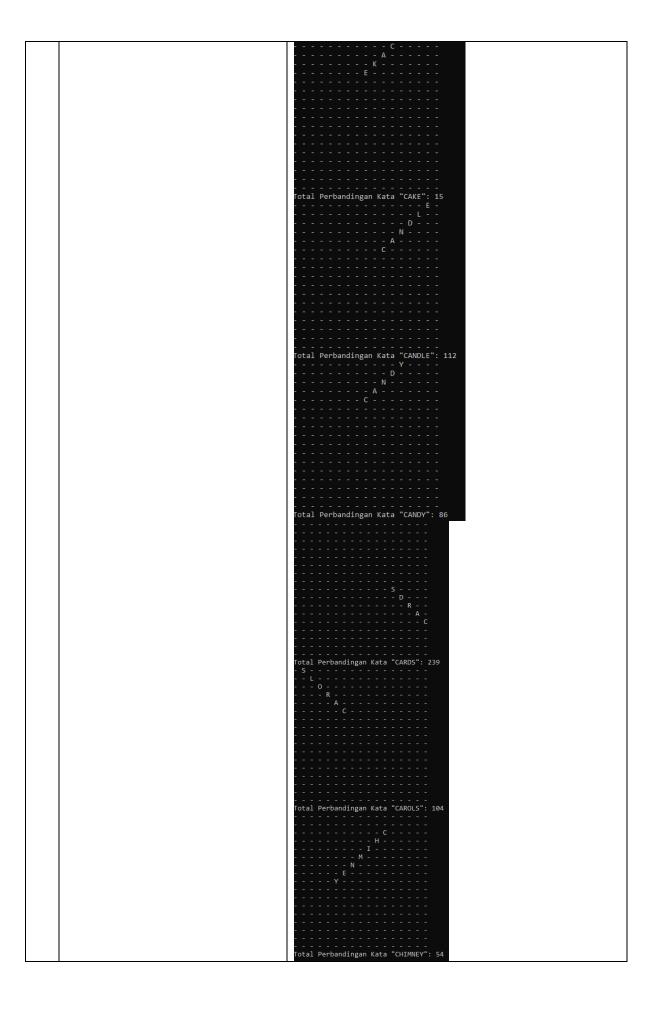
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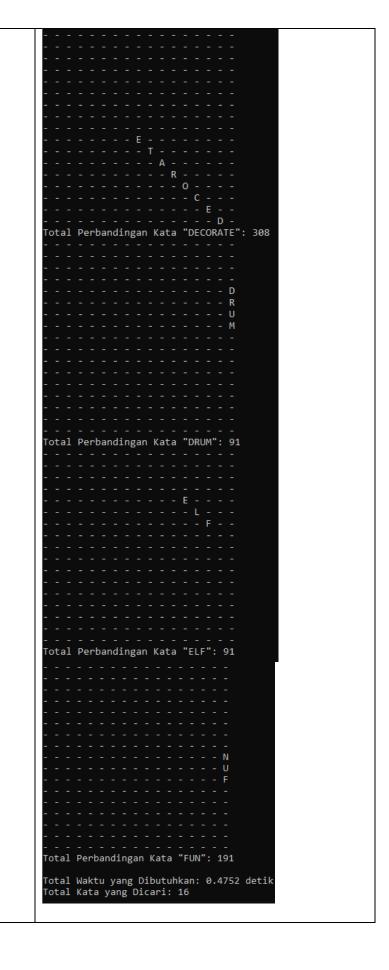






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	Total Perbandingan Kata "FAN": 227	Total Perbandingan Kata "FRIDGE": 96
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		Total Perbandingan Kata "FRYER": 261
	Total Perbandingan Kata "FAX": 120	Total Waktu yang Dibutuhkan: 0.3968 detik Total Kata yang Dicari: 15
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4. T B U B A T T L E S H I P M U I G L E B S P O D H J F N I A O I N S S R D S N A U N S T R I A I T S R C A M A I I I Y S UENHTEOEGAHIPIMDIUEV IWEVEOVRHHLOAASNBREH N B I E S L M T N O T E C O L S B I W D S R E W O P L A R T N E C S C I U P S Y N M D O M F P S N R G E R M A N Y R N R DSTAJECRAOMSTKLMLEIT WTEEYSTHDWCPYEAASPLI OAHIERUEIIYKINUINPSL GALLIPOLIIOSUDTYONAT SSGREATBRITAINGSEATB H E O N A R I A U S T R I A A Y P R E S ARTILLERY AUSTRIA BATTLESHIP BELGIUM CENTRALPOWERS FERDINAND FIGHTERPLANE FRANCE GALLIPOLI GERMANY GREATBRITAIN

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Total Perbandingan Kata "CENTRALPOWERS": 1	69 Total Perbandingan Kata "FIGHTERPLANE": 58

	F R A N C E
	Total Perbandingan Kata "FRANCE": 395
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R T E S N E U L N A M L O W D W S S I I
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G G Y I S E N C U A D M D H I A E C L A RTESNEULNAMLOWDWSSII M S D E B L H G N D L C M N A T H N C S ADAMS ARTHUR BUSH CARTER CLINTON EISENHOWER FORD HARRISON HOOVER JEFFERSON KENNEDY LINCOLN MONROE NIXON OBAMA

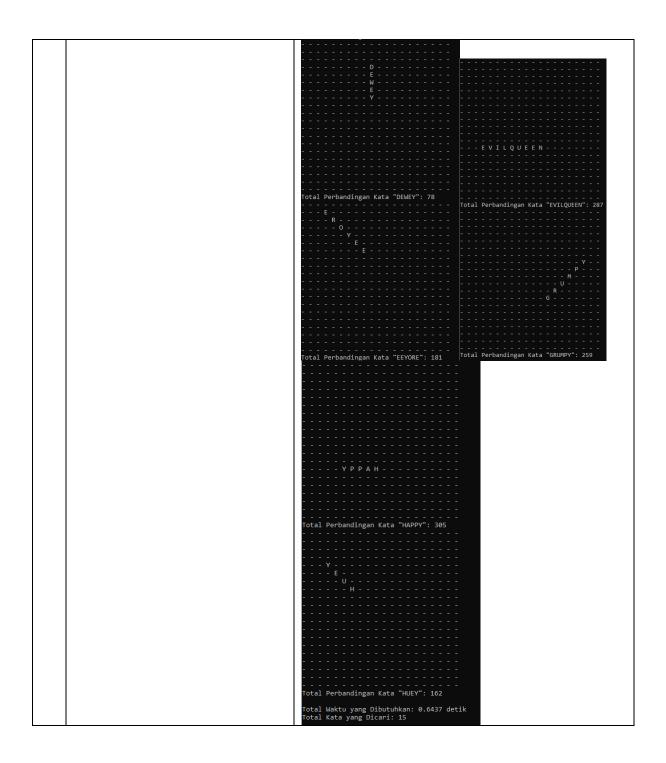
Put in file name (ending with .txt): angel/medium 2.txt	
Put in file name (ending with .txt): angel/medium_2.txt ADAMS ARTHUR	
BUSH CARTER	
CLINTON	
EISENHOWER FORD	
HARRISON HOOVER	
JEFFERSON KENNEDY	
LINCOLN MONROE	
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Total Perbandingan Kata "ADAMS": 305	ĺ
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Total Perbandingan Kata "BUSH": 49	
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Total Perbandingan Kata "CLINTON": 418
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R E W O H N E S I E
Total Perbandingan Kata "EISENHOWER": 279
F O R D
Total Perhandingan Vata "FORD": 122
Total Perbandingan Kata "FORD": 122
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Total Perbandingan Kata "JEFFERSON": 76  V D E N N E K  V D E N N E K  U L  U L  U L  U L  U L  U L  U L  U	
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Total Perbandingan Kata "KENNEDY": 216	Total Perbandingan Kata SEFFERSON : 70
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Total Perbandingan Kata "MONROE": 162
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Total Perbandingan Kata "NIXON": 456
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Tabal Bankardiana Kata Bankar Bankar
Total Perbandingan Kata "OBAMA": 176
Total Waktu yang Dibutubkan, 0 7020 datik
Total Waktu yang Dibutuhkan: 0.7039 detik Total Kata yang Dicari: 16
Total Kata yang bitari. 10

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SDTLEWHILYHCSUCOCYIK	
UNRTISINIAOOBEAKPEBC	HUEY
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MOEARSTONLATROUILARD	
Y J H R T E S T M I T O H R T I N B K C	
EOFEVILQUEENGTLOEACM	
KIOWMYPPAHITNPSLASUE	Total Perbandingan Kata "ARIEL": 41
CANASTASIATNHTLSKHDG	Noted Terbandingan Note Antel 1 41
IEEOYYIRTRSONESGEFYO	
MHEMTADPIAIABIPAEUSO	
BSUETUANNLOHFMMOHLIR	Total Perbandingan Kata "ALICE": 110
H M Q A E C L U E O U E N U E E O H A C	BAMBI
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ALICE	
ANASTASIA	
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BAMBI	- A N A S T A S I A
BASHFUL	
BELLE	
CAPTAINHOOK	Total Perbandingan Kata "ANASTASIA": 320 Total Perbandingan Kata "BAMBI": 136
DAISYDUCK	
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GRUMPY	K K
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	Total Perbandingan Kata "BASHFUL": 249   Total Perbandingan Kata "CAPTAINHOOK": 390
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7	2 MBVGKBPAZHKCERUTAEFCMDBSCAPEGOATBQ 3 QCAVSDCFLCQFHBOYLZWBRTCFMAWBIUUIIN	AMBIDEXTROUS
	4 WRFTRVJMKNMSPFUYPGOQHOPIAGDIUFDDFU	BENEFACTOR BIFOCAL
	5 PECAEPO QR QPU DKN JRYTSIM TYPKFTN ZUIWT 6 QATYHMH GBKEPACSYTICAKRPCFU GTH DM JAT	BUREAUCRAT
	7 EKWDLQERELJHTMUGUTFEEBLYANMQFHURSP 8 YIBOJDINHZFSKDEVBBPVRPEQXFTWZICCFS	CANNERY
	9 MNRCMOAJTWAPKXFWICGISBYSXREVOUOOEB	CHEF
	10 AGSYNCHRONIZEPZHFDNGWEAHFLENAOICFD 11 TPISUYWXYABRELGXOEIJVINURYEEECDFZS	CITYSCAPE CLERGY
	12 PFMDEMIOMGTETIBBCRDXYUJYPDRFTBIYVE 13 NUHQASSHFIJMAHHOAIEDTLIJPUGPQMGKTD	CREAKING
	14 FEESTRUWNYDUVIEVLAELHSTABHEEARFAYS	DEGREE
	15 QNEKILAGRTOTTEICEPCUCFNFTWDEEOBQCE 16 WEWCTRJPOBOHDXKXKSXCGCPISHYLYRQZFD	DESPAIRED DOORKNOB
	17 MPUNISHINGRKICBNLEEEIVVDAOCREJHOQX	DRAMATIZING
	18 CEPAMDNIHTKCRHOWSDAVWBNPCGUCEPJGRT 19 UDAFZSQLBVNWIZYWOJTPIIZCKXAYZFNHPU	DRAT
	20 REIQJBRPYIORSERSXZZOWEAUSXYLBIIWBS	PARADIGM
	21 C J J I X E K O O S B R Z R T V M K U O T N E M E M U Z K E H N A G 22 K H A E G W J W T K C Z P F R A Y E N N D H T A W T A A Q N O R E E	PILGRIM PROCTORS
	23 VRGVOQCAYCYXOWEETKHDZAJHULWMHISPZR 24 QENISPMDISOQRHPUKIUUSINCERITYTRATR	PUNISHING
	25 Y S I S X C Z O G P X R Q W R B N Q V H L G O Q D R E C W N Z Y C F	REFINER
	26 ZELSUHTPDAAAPGOJEVVAOJCCGHEYFESHQE 27 MMDEEGNTXRDXFRVEZHQKRWLLEBFJUPBFCH	REPROVE
	28 H B N S V R E E N T P Y V A E J F M M R I G I N X R Z X R R Q S A C 29 V L O B F V R D K A L X V V T U Y J H O J P Y G G W E K Y U Q U J W	
	30 IEFOZWMGTNZSIYVJDFVPIDUJIRCVBTBUOD	
	31 FWGSSAPRUSSYQGNIZITAMARDDREEEQVOJM 32 NAMBIDEXTROUSQKSBBIVFRYXKFVQFRHJST	
	33	
	34 AMBIDEXTROUS 35 BENEFACTOR	
	36 BIFOCAL 37 BUREAUCRAT	
	38 CANNERY	
	39 CHEF 40 CITYSCAPE	
	41 CLERGY 42 CREAKING	
	43 DEGREE	
	44 DESPAIRED 45 DOORKNOB	
	46 DRAMATIZING 47 DRAT	
	47 DRAT 48 PARADIGM	
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		Total Perbandingan Kata "AMBIDEXTROUS": 1142
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		Total Perbandingan Kata "BENEFACTOR": 439

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Total Perbandingan Kata "BIFOCAL": 277
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Total Perbandingan Kata "BUREAUCRAT": 499
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Total Derhandingan Vata "CANNERV": 18

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Total Perbandingan Kata "CHEF": 1014
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Total Perbandingan Kata "CITYSCAPE": 208
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Total Perbandingan Kata "CREAKING": 82
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Total Perbandingan Kata "DEGREE": 542
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Total Perbandingan Kata "DOORKNOB": 484
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Total Perbandingan Kata "PARADIGM": 559
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Total Perbandingan Kata "PUNISHING": 586
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Total Perbandingan Kata "REFINER": 625
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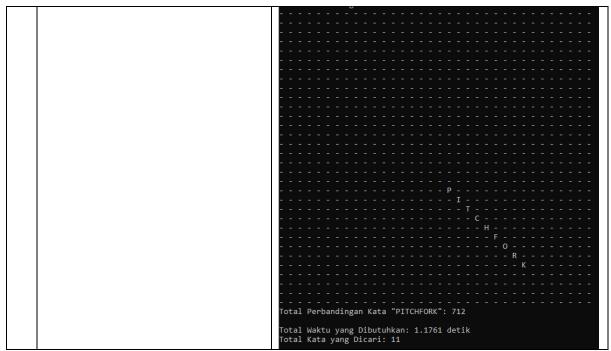
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E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S D G M S D G M S E S	A H P Z M S A I G K S D G M N J I J U W K H F Y C J Z O Z S I F R O Z C N H N S I F R O Z C N H N S I F R O Z C N H N S I F R O Z C N H N S G H L D A G Z S P I M Z P M U Z Z J U U G O D E T W F O Z C N G G I W Z S L P M U Z Z J U U G O E T W F O Z C N G G I W Z S L P G O N N G G G I W Z S L P G O N N G G G I W Z S L P G O N N G G G I W Z S L P G O N G G G I W Z S L P G O N G G G I W Z S L P G O N G G G I W Z S L P G O N G G G I W Z S L P G O N G G G I W Z S L P G O N G G G I W Z S L P G G G I W Z S L P G G G I W Z S L P G G G I W Z S L P G G G I W Z S L P G G G I W Z S L P G G G I W Z S L P G G G I W Z S L P G G G I W Z S L P G G G I W Z S L P G G G G G G G G G G G G G G G G G G	A H P Z M S A T Ğ K H S D G M M J J U M U K H F Y C J Z O Z S M I F R O Z C H H N S A D E L B A R E L O T N D E C I U J O G D M I M T M S O G D M P H Z N G E A N Y S I X S E G H L D A G Z S P I D M Z P M U Z Z J U U T R P L Z Y Y Z U Q G D E T W F O D N N B I L S E V N C G G I H N Z A W S E S S I N C U L M M K J E K S X C Y U W F B I T D D N E M D I Z Y I T E R Y Q D H J G M S N O C N P F P K B H X I P D E L E E O F L A T I F R Y Q D H J G M T A I R E T K A B L E Y Y C E M S D T R E R V K E K N N L U N C L E A N L GARCO GA	A H P Z M S A I G K H S S D G M N J I J U W U L K H F Y C J Z O Z S M C I F R O Z C N H N S A N D E L B A F E L O T N I D E C I U J O G D M I E I M H X Q O I M P H Z P N G E A N Y S I X S E M G H L D A G Z S P I D L W Z P M U Z Z J U U T Z R P L Z Y V Z U Q G D O O D E T W F O D N N B E I L S E V N C G G I H W W Z S L P G O M L T N E C U L M M K J E K S X I L Q Y U W A A N Y I G C L Q U V F B I T D D N O E M D I Z Y I E C V P Y A J C M S N O C N P F A P K B H X I P D E L E E E O F L A T T E R Y Q K D H J G M T A I R E T S R A B L E Y H O S C K N N L U N C L E A N L Y GAROO ERLO I D I J Y J O S C S C S C S C S C S C S C S C S C S	A H P Z M S A I G K H S N S D G M N J J O W N L U K H F Y C J Z O Z S M C U L F R O Z C H H N S A M X D E C I J J O G D M I E E I M H X Q O I M P H Z P Q N G E A N Y S I X S E M E G H L D A G Z S P I D L N M Z P M U Z Z J U U T Z D R P L Z Y Y Z U Q G D O U O D E T W F O D N N B E S I L S E V N C G G I H W P W Z S L P G M L T N E Y C U L M M K J E K S X I K L Q Y U W A A M Y I G C K L Q U U Y F B I T D D N O N E M D I Z Y J E C V P Y S A J C M S N O C N P F A C P K B H X I P D E L E E N E O F L A T T F R Y Q K R D H J J G Y H O S C E Z W I N F J V O A R N K T S X Q O W M U I T P L E E M S D T R E R Y K E K K L N N L U N C L E A N L Y G GAROO ELEC PED JURGHENT J	A H P Z M S A I Ğ K H S N U U D S O G N N J I J U N U U U V C S O G N J I J U N U U U V C S O G N G O G O G O G O G O G O G O G O G	A H P Z M S A I Ğ K H S N Y Ğ S D G M N J I J U W U L U D A K H F Y C J Z O Z S M C C F A I F R O Z C N H M S A M X F E D E L B A R E L O T N I X I I D E C I U J O G D M I E E T R I M H X Q O I M P M Z P Q N X N G E A N Y S I X S E M E O R M Z P M U Z Z J U U T Z D X O R P L Z Y Y Z U Q G D O U U L D E T M F O D N N B E S N M I L S E V N C G G T H W P P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L Y D C G G T H W P P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M L T N E Y P I X S L P G O M T T N E Y P I X S L P G O M T T N E Y P I X S L P G O M T T N E Y P I X S L T E R V S C K M Y X G O M M U L T I P L E E N K O X G O M U T N E Y V O X G O M U L T I P L E Y Q V U X G O M M U L T I P L E E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U L T I P L E C Y S V U X G O M M U T T P L T S S V O T S T S T S T S T S T S T S T S T S T	A H P Z M S A I Ğ K H S N Y Ğ F S D G M N J I J U W U LU D A O K H F Y C J Z O Z S M C C F A H I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N H N S A M X F I I F R O Z C N F I F O Z C N F I I F R O Z C N F I F O Z C N F I I F R O Z C N F I F O Z C N F I I F R O Z C N F I F O Z C N F I I S V N C G G I H W P P I K I S V N C G G I H W P P I K I Z S L P G O M L T N E Y F I I V Z S L P G O M L T N E Y F I I V Z S L P G O M L T N E Y F I I V Z S L P G O M L T N E Y F I I V Z S L P G O M L T N E Y F I I V Z S L P G O M L T N E Y F I I V Z S L P G O M L T N E Y F I I V S V S C S C S C S C S C S C S C S C S	A H P Z M S A I Ğ K H S N Y F F E S D G M N JI J U W U L U D A O T K H F Y C J Z O Z S M C C F A H W I F R O Z C N H N S A M X F E A H W I F R O Z C N H N S A M X F E A M W I F R O Z C N H N S A M X F E A M W I F R O Z C N H N S A M X F E A M W I F R O Z C N H N S A M X F E A M W I F R O Z C N H N S A M X F E A M W I F R O Z S C M S C	A H P Z M S A I Ğ K H S N Y F F E X S S G M N J J Q W Q U U D A O T K K H F Y C J Z O Z S M C C F A H W I I F R O Z C N H N S A M X F E L A Y Y D E L B A Y S G M C G F A H W I I F R O Z C N H N S A M X F E L A Y Y D E L B A Y S G M C G F A H W I I F R O Z C M H N S A M X F E L A Y Y T M S G A C M S G S G M S G M S G G M S	A H P Z M S A I Ğ K H S N Y F F E X I S D G N H J I J U N U L U D A O T K A K H F Y C J Z O Z S M C C F A H W I F I F R O Z C N H N S A M X F E L A Y M D E L B A R E L O T M I X I I R I L M M D E L B A R E L O T M I X I I R I L M M D E C I U J O G D M I E E T R M U Z L I M M X O G I M P H Z P G N X P Y I E N G E A N Y S I X S E M E O R S Y J N G H L D A G Z S P J D L N P G I Q E T M Y Y I X Z P M U Z Z J U U T Z D X O E D Y Y R P L Z Y Y Z U Q G D O U U U N U T H O D E T M F O D O M N B E S M M C S M I I I L S E V N C G G I H W P P I K N S A X Z S L P G O M L T M E Y P R Q M U L C U L M M K J E K S X I K P I O P I B L Q Y U W A A N Y I G G K W Y U S I Y L Q U V F B I T D D N O N H P J Q E T E M D I Z Y I E C V P Y S J Y M Z F C A J C M S N O C N P F A C E T I O U S P K B M X I P D E L E E N K O X J P N E O F L A T I T E R Y Q K R A Q G P A R D H J G M T A I R T E Y S Q G L E J X Y Q O W M U L T I P V G V E Z P N O I P N I N F J V O A R N K T S V Q G L E J X Q O W M U L T I P L E E I G L D A M S D T R E R V K E K K L B K S Q J T N N L U N C L E A N L Y G V U P T N S GAROO ELED PED JURGOWENT OTHEISM TIPLE I VIOUS ESSION ABBLE	A H P Z M S A I ĞK H S N Y F F E X I N S O G M N J D J W N L U D A O T K A Y Y K H F Y C J Z O Z S M C C F A H W I F T I F R O Z C M H N S A M X F E L A Y M I D E L B A R E L O T N I X I T R I L M B D E C I U J O G D M I E E T R M U Z L I I M H X O G D Y M Y F Y E R G S Y J N D G D M Y F Y I F E R G S Y J N D G D M Y F Y I F E R G S Y J N D G D M Y F Y I F E R G S Y J N D G D M Y F Y I F E R G S Y J N D G D M Y F Y I F E R G S Y J N D G D M Y M I M Y F E R G S Y J N D G D M Y M R P L Z Y V Z U Q G D O U U L H I T H E O D E T M F O D N N B E S M M C S M I C I L S E Y W C G G I H W P P I K N S A R W Z S L P G O M L T N E Y P R O M U L M C U L M M X J E K S X I K P I O P I B F L Q Y U M A M Y I G C K W Y U S I Y M Z F C C A J C M S N O C N P F A C E T I O U S U P K B M X I P D E L E E N K O X J P N Y E C F L G L D A I M S M T B U R A B L E Y Y M O S C E Z R P N O I P M I M S I M S D T R E R V K E K K L B K S Q J T K N N L U N C I E E A N L Y G V U P T N S A GAROO ELED PED I M S O T R E R V K E K K L B K S Q J T K N N L U N C L E A N L Y G V U P T N S A GAROO ELED PED I M J M J C M S C S SION M S M S E SSION M S M S E SSION M S M S E S SION M S M S E S S SION M S M S E S S SION M S M S E S S S S S S S S S S S S S S S	A H P Z M S A I Ğ K H S N Y F E X I N I S D G M N JI JU W U L U D A O I K A Y H K H F Y C J Z O Z S M C C F A H N I F T A I F R O Z C N H N S A M X F E L A Y M I O D E L B A R E L O T N I X I R I L M B E D E C I U J O G D M I E E T R M U Z L I T I M H X Q O I M P H Z P Q N X P Y I E E E N G E A N Y S I X S E M E O R S Y J N D N G H L D A G Z S P I D L N P G I Q E T I M Z Y D U Z U Q G D O U U L N T H E Z D E T W F O D N N B E S M M C S M I C D I L S E V N C G G I H W P P I K N S A P P W Z S L P G O M L T N E Y P R Q M U L M I L Y Y Z U Q G D O U U L N T H E Z C U L M M K J E K S X I K P I O P I B F A L Q Y U W A A N Y I G C K Y Y U S I Y N C U L M M K J E K S X I K P I O P I B F A L Q Y U W A A N Y I G C K Y Y U S I Y N C W J E M D I Z Y I E C V P Y Z J Y M Z F C A J C M S N O C N P F A C E T I O U S U H P K B H X I P D E L E H K C X J P N Y I D F I A T I T E R Y Q K R A Q G P A R N V D H J G M T A I R E T S O O B R N T B U Q M X Q W M W L T I P L E E Z F R D O I P W A S N O C N R S C E Z F P N O I P W A S N O C N R S C E Z F P N O I P W A S N O C N R S C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y A S L E Z F C C E Z F P N O I P Y B S S D T R E R V K E K K L B K S Q J T K O N N L U N C L E A N L Y G V U P T N S A V B S S S S S S S S S S S S S S S S S S S	A H P Z M S A T ĞK H S N Y F F E X I N I Z S D G W N J I D U W U U D A O T K A Y H L K H F Y C J Z O Z S M C C F A H W I F T A N I F R O Z C H H N S A M X F E L O Y N I X I I R I L M B E S D E C I U J O G D W N I Z F T R W I V Z L T N I T Y L M B E S D E C I U J O G D W I E E T R W U Z L I T N I M S Y D E C I U J O G D W I E E T R W U Z L I T N I M Y X O Y D N Y Y Y E E B G N G E A N Y S I X S E M E O R S Y J N D N X M S H L D A G Z S P I D L N P G I Q E T I E T M Z P M U Z Z D U U T Z D X O E D Y Y M H N R P L Z Y Y Z U Q D O U U L N U T H E Z D O D E T W F O D N N B E S M M C S M I C D M I L S E Y N C G G I H W P P I K M S A R P S X Z S L P G O M L T N E Y D Y Q M U L H G B C U L M M K J E K S X I K P I O P I B F A O C U L M M K J E K S X I K P I O P I B F A O C U L M M K J E K S X I K P I O P I B F A O C U L M M K J E K S X I K P I O P I B F A O C U L M M K J E K S X I K P I O P I B F A O C U L M M K J E K S X I K P I O D P I B F A O C U L M M K J E K S Y I K P I O D C E T A Y Z E M D I Z Y F I E C Y P Y S J Y M Z F C C S T A J Z E M D I Z Y F I E C Y P Y S J Y M Z F C C S T A J C M S N O C N P F A C E T I O U S U H T P K B H X I P D E L E E N K O X J P N Y T F C O F L A T T E R Y Q K R A Q G D A R N V I D H J J G M T A I R E T S O O B R M T B U Q J M A J C S C S C M S O S C N N L U N C U E E A N L Y G V U P T N S A V I G A C C E T G L D A S X A M S D T R E R V K E K K L B K S Q J T K O S N N L U N C U C E A N L Y G V U P T N S A V I G A C C E T C D T C C M S C S C S C S C S C S C S C S C S	A H P Z M S A I Ğ K H S N Y F F E X I N I Z C S D G M N JI JU W U L U D A O T K A Y H L R K H F Y C J Z O Z S M C C F A H M I F T A N N I F R O Z C N H N S A M X F E L A Y M I O V I D E L B A R E L O T N I X I R I L M B E S X D E C I U J O G D M I E E T R M U Z L I T N V I M H X Q O I M P H Z P Q M X P Y I E E B G B N G E A N Y S I X S E M E O R S V J N D N X O G H L D A G Z S P I D L N P C I Q E T I E T F M Z P M U Z Z J U U T Z D X O E D Y Y M H N A R P L Z Y V Z U Q G D O U U L N U T H E Z D A D E T W F O D N N B E S H M C S M I C D M K I L S E V N C G G I H W P P I K N S A R P S R V S L P G O M L T N E P P R Q M U L H G B I C U L M M K J E K S X I K P I O P I B F A O E C U L M M K J E K S X I K P I O P I B F A O E E M D I Z Y J I E C V P Y Z J Y K Z F C A J C M S N O C N P F A C E T I O U S U H T M P K B H X I P D E L E H N K O X J P N Y T F E M D I Z Y J I E C V P Y Z J Y K R A Q G P A R N V I O D H J G M T A I R E T S O O B R N T B U Q J O D H J G M T A I R E T S O C B C Z P N O I P M A T S W I N F J V O A R N K T S V Q G L E J O O R A M S D T R E R V K E K K L B K S Q J T K O S Z N N L U N C L E A N L Y G V U P T N S A V I C GAROO ELED PED JURGOWENT OTHERSM I TIPLE IVIOUS ESSION ABLE	A H P Z M S A I G K H S N Y F F E X IN I Z C A S D G M N J J J W M L U D A O T K A Y H L R O K H F Y C J Z O Z S M C C F A H W I F T A N N R I F R O Z C H H N S A M X F E L A Y M I O V I M D E L B A R E L O T N I X I I R I I H B E S X D D E C I U J O G D M I E E T R M U Z L I T N V D D E C I U J O G D M I E E T R M U Z L I T N V D D E C I U J O G D M I E E T R M U Z L I T N V D M S O M S	A H P Z M S A I ĞK H S N Y F F E X I N I Z C A M S D G M J I J J U M U L U D A O T K A Y H L R O H K H F Y C J Z O Z S M C C F A H W I F T A N N R U I F R O X O X S M C C F A H W I F T A N N R U I F R O X O X S M C C F A H W I F T A N N R U I F R O X O X M Y F E L A Y M I O Y I M J D E L B A R E L O T N I X I I R I L M B E S X D L D E C I U J O G D M I E E T R M Z L I T N Y D O I M Y X Y O I M P X Y P Y I E E B G B N J N O X O X O X G M Y S Y I X S E M E O R S Y J N D N X O N X O X G L C D Y Y M H N A J N R P L Z Y Z U Q G D O U U L N U T H E Z D A G W O D E T W F O D D O Y M H N A J N R P L Z Y Y Z U Q G D O U U L N U T H E Z D A G W O D E T W F O D N N B E S M C S M I C D M K F E I L S E V N C G G I H W P P I K N S A R P S R F O W Z S L P G O M L T N E Y P R Q M U L H G B I I E L C U L M M K J E K S X I K P I O P I B F A O E C N L Q U W F B I T D D N O N H P J Q E T A Y Z R X U E M D I Z Y I E C V Y Y S J Y M Z F C C S I V F K A J C M S N O C N P F A C E T I O U S U H T M G O P K B H X I P P D E E H N C S Y I P Y Y F Y K A J C M S N T E U Q J O R O R A B L E Y Y O S C E Z R P N O I P M A T S N K W I N F J V O A R N K T S V O G E E J O O R A G N X Q O W M U L T I P L E E Z I C L D A I S A N A H M S D T R E R V K E K K L B K S Q J T K O S Z M J N N L U N C L E A N L Y G V U P T N S A V I C A R GAROO ELED O C C S S SION M S U C I C C I S S SION M S U C I C C I S S SION M S U C I C C I S S SION M S U C I C C I S S SION M S U C I C C I S S SION M S E S	A H P Z M S A T Ğ K H S N Y F F E X I N I Z C A M C S D G M N J I J U W U U U D A O T K A Y H R R O H H K H F Y C J Z O Z S M C C F A H W I F T A N I R U O I F R O Z C N H H S A M X F E L A Y M I O V I M J R D E L B A R E L O T N I X I I R I L M B E S X D L M D E L B A R E L O T N I X I I R I L M B E S X D L M D E C I U J O G D M I E E T R M U Z L I T N V D O Q I M H X O Y D N Y Y I E E B G B N J S S N G E A N Y S I X S E M E 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N K H Y M Y M Y M Y M Y M Y M Y M Y M Y M Y	A H P Z M S A L ĞK H S N Y F F E X I N I Z C A M C M X X S D G M N I J D U M U LU D A O T K A Y H L R O H I V F K H F Y C J Z O Z S M C C F A H M I F T A N N R U O J O S I F R O Z C M H N S A M X F E L A Y H I O V I H D R C O L D E L B A R E L O T N I X I I R I L M B E S X D L M E K N D E C I U J O G D M I E E T R H U Z L I T N Y D O Q N G R M S T M S Y D M N S O S O S O S O S O S O S O S O S O S	A H P Z M S A I Ğ K H S N Y F F E X I N I Z C A M C M X X Y S D G M N J J J U W U U U D A O T K AY H L R O H H I Y F I K H F Y C J Z O Z S M C C F A H W I F T A N H R U O J O S G I F R O Z C N H M S A M X F E L A Y M I O Y I H J R C O L C D E L B A R E L O T N I X I I R I L M B E S X D L M E K N I D E C I U J O G D M I E E T R M U Z L I T N Y D O Q N G R M I M H X Q O I M P H Z P P Q N X P Y I E E B G B M J S Y D M A N G E A N Y S I X S E M E O R S Y J N D N X O N X L S Z S Z G H L D A G Z S P J D L N P G I Q E T I E F F P L O K Q Z E M Z P M U Z Z J 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Tabel 1. 3 Test case word puzzle

### IV. Cek List Program

#### 3.1 Check List

Poin		Ya	Tidak
1.	Program berhasil dikompilasi tanpa		
	kesalahan (no syntax error)		
2.	Program berhasil running	<u> </u>	
3.	Program dapat membaca file	1/	
	masukan dan menuliskan luaran.		
4.	Program berhasil menemukan	. /	
	semua kata di dalam puzzle.		