# **LAPORAN TUGAS KECIL 1 IF2211**



Raden Haryosatyo Wisjnunandono 13520070

#### **BABI**

#### **ALGORITMA BRUTE FORCE**

```
// Algoritma brute force utama ada di dalam fungsi matcher, fungsi ini menerima 2 parameter yakni vector (array dinamis) of char dari pattern
// dan teks dan mereturn index dari karakter pertama dari pattern yang sesuai dengan teks
int matcher(vector<char> P, vector<char> T){
// Mencari dan menyimpan informasi dari panjang pattern dan teks
   int m = P.size();
int n = T.size();
//Inisialisasi iterator
   int i = 0;
int j = 0;
    bool found = false;
//Mencari pattern dalam teks dengan iterasi satu-satu dari karakter teks yang indexnya 0 sampai ke
//indeks ke x dimana x adalah panjang teks - panjang pattern
while ((i<=n-m) && not(found)){</pre>
//j adalah iterator yang mengiterasi tiap elemen dalam pattern
        while ((j < m) \&\& (P[j] == T[i+j])){}
            j++;
//jika j sudah sama dengan panjang pattern maka iterator sudah sampai ujung dan menandakan bahwa semua karakter dalam pattern ditemukan dalam
//teks secara sekuensial
        if (j == m){
            found = true;
        else{
            i++;
        }
//jika sudah ditemukan maka fungsi akan mereturn indeks karakter pertama ditemmukannya pattern dalam teks
    if (found){
        return i;
    else{
        return -1;
    }
}
```

#### **BAB II**

#### **SOURCE CODE**

#### Disclaimer:

Untuk menghemat tempat, yang akan dilampirkan hanya file implementasinya saja (.cpp) untuk file header (.hpp) dapat dilihat pada link drive yang berisi source code yang lengkap

#### solver.cpp (algoritma brute force utama)

#### fileinput.cpp (untuk membaca file input dalam folder ../test)

#### main.cpp (Program utama)

```
#include <iostream>
#include <fstream>
#include <*stream>
#include "solver.hpp"
#include "fileinput.hpp"
#include <typeinfo>
#include <chrono>
using namespace std;
           for(auto y: x){
    cout << (int)y << ' ';
vector<vector<char>> mat;
     string fileName;
cout << "Masukkan nama file: ";
cin >> fileName;
     cout << '\n';
inputFile(fileName);</pre>
      vector<vector<char>>> rlistPatt;
           vector<char> rpatt;
for (auto ir = listPatt[x].rbegin(); ir != listPatt[x].rend(); ++ir){
```

```
auto start = chrono::system_clock::now();
    vector<vector<char>>> disp;
    int row = mat.size();
int col = mat[0].size();
         vector<char> arrnew;
             arrnew.push_back('-');
         disp.push_back(arrnew);
    int idx;
         if (idx != -1){
   for(int k = 0; k < listPatt[j].size(); k++){</pre>
                  disp[i][idx] = listPatt[j][k];
             printmatrix(disp);
            if (idx != -1){
  for(int k = 0; k < rlistPatt[j].size(); k++){</pre>
                  disp[i][idx] = rlistPatt[j][k];
```

```
if (idx == -1){
    //Diagonal kirl atas ke kanan bawah segitiga bawah
for(int ltc = 0; ltc < row-1; ltc++){
    vectorcchar> diagonalLR;
    int li = ltc;
    int lj = 0;
    whalle ((li < row) && (lj < col)){
        diagonalLR.push_back(mat[li][lj]);
        li++;
        lj++;
    }
    // auto start = chrono::system_clock::now();
    idx = matcher(rlistPatt[j], diagonalLR);
    // auto end = chrono::system_clock::now();
    // chrono::durationxdouble> elapsed_seconds = end-start;
    // chrono::durationxdouble> total_time = total_time + elapsed_seconds;
    counter++;
    if (idx != -1){
        for(int k = 0; k < rlistPatt[j].size(); k++){
            disp[ltc+idx][0+idx] = rlistPatt[j][k];
            idx++;
        }
        printmatrix(disp);
        cout << '\n';
    }
    else{
        // auto start2 = chrono::system_clock::now();
        // chrono::durationxdouble> clapsed_seconds = efend-start2;
        // chrono::durationxdouble> clapsed_seconds = efend-start2;
        // chrono::durationxdouble> total_time = total_time + elapsed_seconds;
        counter++;
    if (idx != -1){
        for(int k = 0; k < listPatt[j].size(); k++){
            disp[ltc+idx][0+idx] = listPatt[j][k];
            idx++;
        }
        printmatrix(disp);
        cout << '\n';
    }
}
</pre>
```

```
auto end = chrono::system_clock::now();
chrono::duration<double> elapsed_seconds = end-start;
cout << "total perbadingan: " << counter << endl;
cout << "elapsed time: " << elapsed_seconds.count() << "s\n";
return 0;</pre>
```

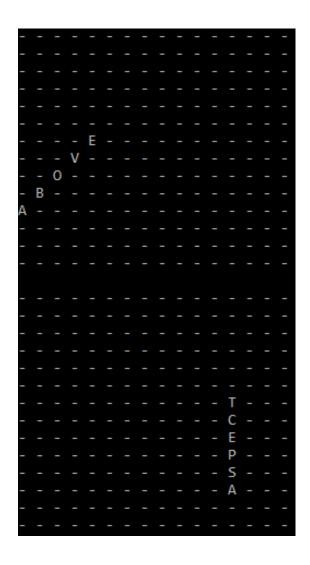
# BAB III INPUT DAN OUTPUT

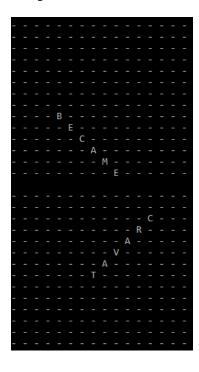
#### 1. small1.txt

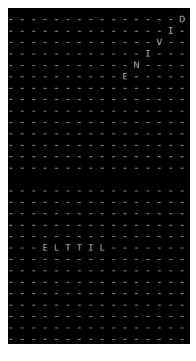
Input: Output:

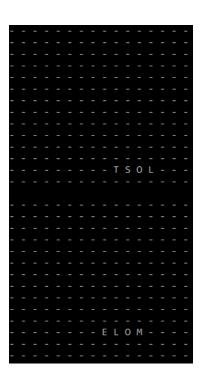
total perbadingan: 2232 elapsed time: 5.38798s

PLUTOFQXPGNOSXND MLXYEGFSYQBQAOIO REMNULAIJDVRITXQ JHODBFBUTWUAE UBLMTEGOCXXTPWAB AMQTTGCXUFOBSNDU SATOXWUAELOMAHYK M B Q A T T F E M T S O L B R A ISUUPSHOTELZQHMW **ABOVE ASPECT** BECAME CRAVAT DIVINE LITTLE LOST MOLE **PLUTO** SHADY SHINE SONG STUN UPSHOT

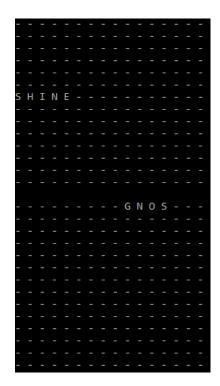


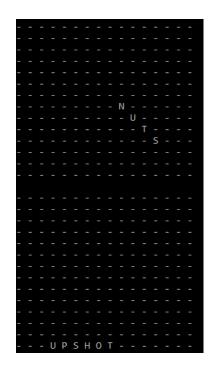






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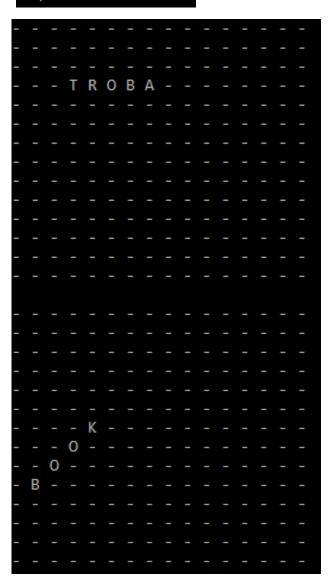
### **2.** small\_**2.**txt

## Input:

## **Output:**

total perbadingan: 2401 elapsed time: 4.17139s

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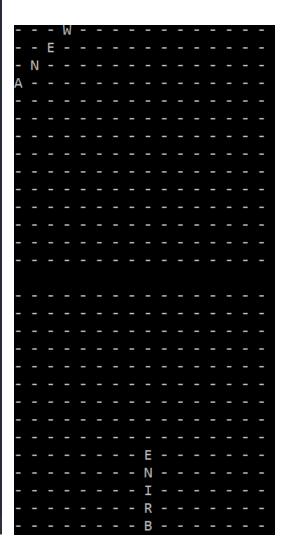
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### 3. small\_3.txt

## Input Output:

total perbadingan: 2401 elapsed time: 5.93424s

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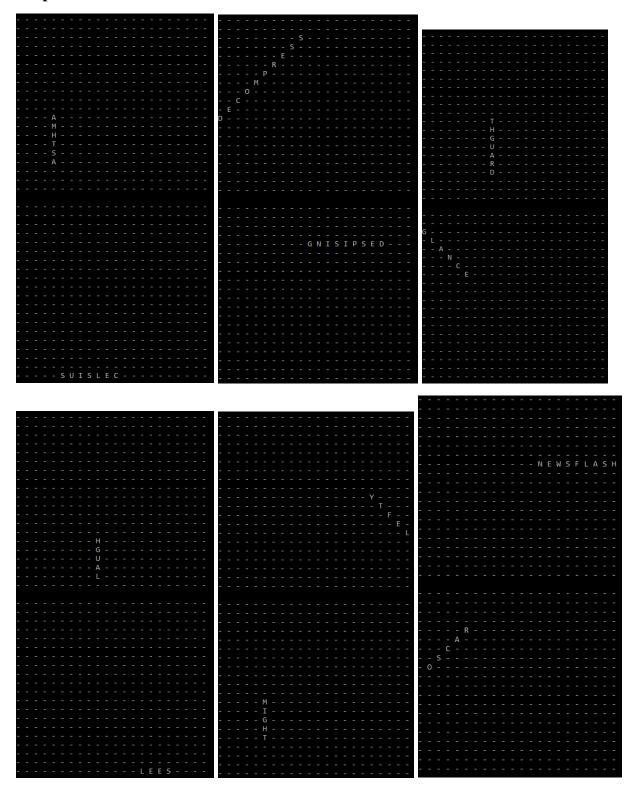
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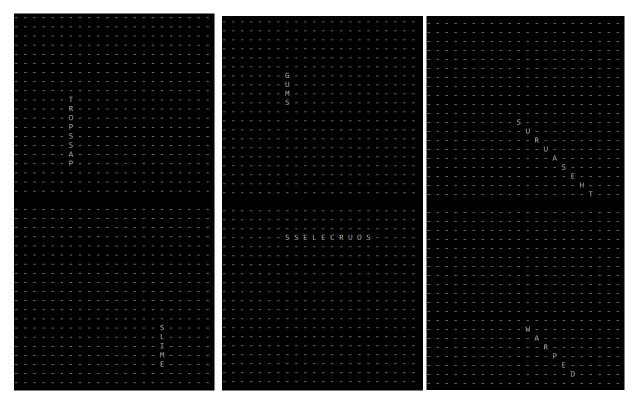
### 4. medium\_1.txt

#### **Input:**

### **Output:**

OHECWWTEICBQVOLKHMNDI ASSERTINGIVYWSHYDBUNPY G B W R I C N F H S X O R C M PLKASCQSSELECRUOS PAINABRODWWPSWADSOF IIJCCPRGUUNPUXDQKGDW OHSOMEFUICVDHNEWSF XGCDDYTSCBBIXKL GEANYKRGT PGRY DFJAAMOKHCSRWBVARR DRSUMIPAGWQUSCOYBBH QHXJHGSSUFEWRGNXS CUEZTHSUAHWFAULAL ZBGESTAGRGDQXRAYI XLXRADPQDUOKYOPSMP AUFBKPBFEAOLPSLEERK YWKZEXOLOLSBHGKXDHSS KXIKOSUISLECJTLEESTTTT ABASH ASSERTING ASTHMA CELSIUS DECOMPRESS DESPISING DRAUGHT GLANCE LAUGH LEES LEFTY MIGHT NEWSFLASH OSCAR PASSPORT SLIME SMUG SOURCELESS THESAURUS WARPED



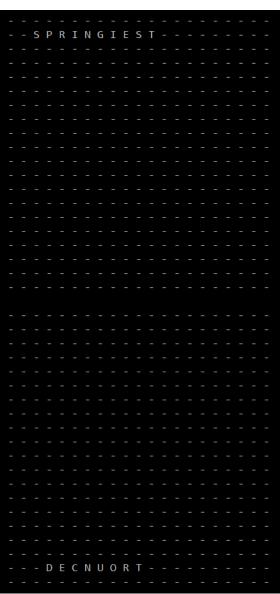


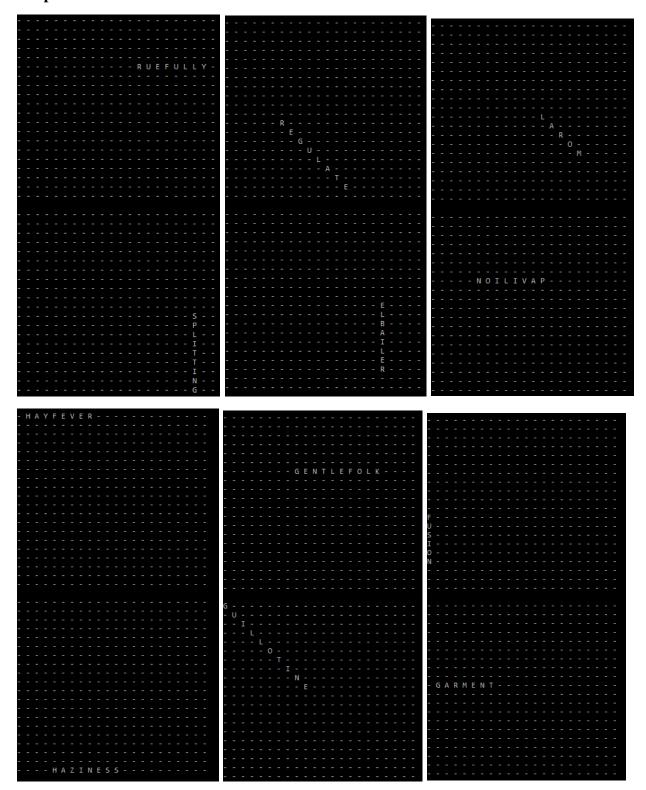
total perbadingan: 4463 elapsed time: 10.9923s

# 5. medium\_2.txt

## **Input:**

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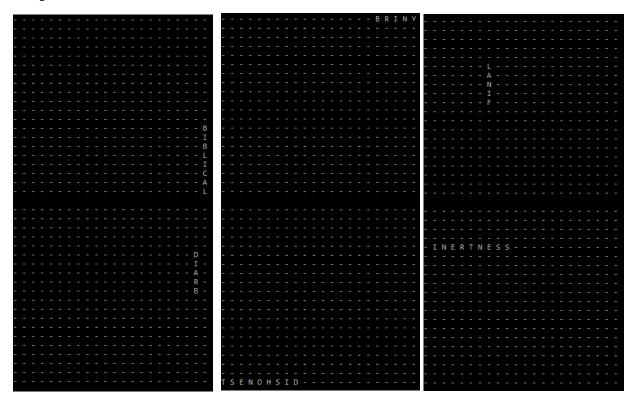
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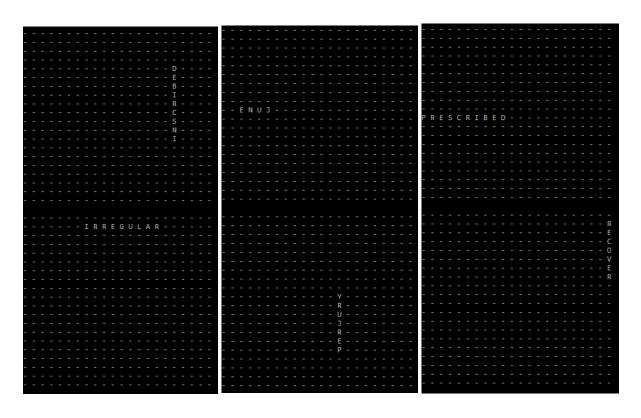
total perbadingan: 4664 elapsed time: 9.92685s

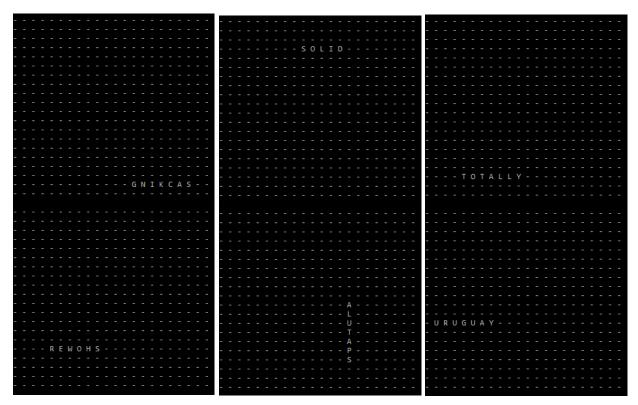
## 6. medium\_3.txt

### **Input:**

DZNFBFFFFYPTHRUXYBRINY	
VGCBXDXIRREGULARJYJIRR	
XJLRGMNUUTMVOHJBXTJHFE	
IBWGKDWPUSOLIDFLTLQUEC	
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OONFCHBLKDGCVNGZXEDHDV	C
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total perbadingan: 4347 elapsed time: 9.72706s

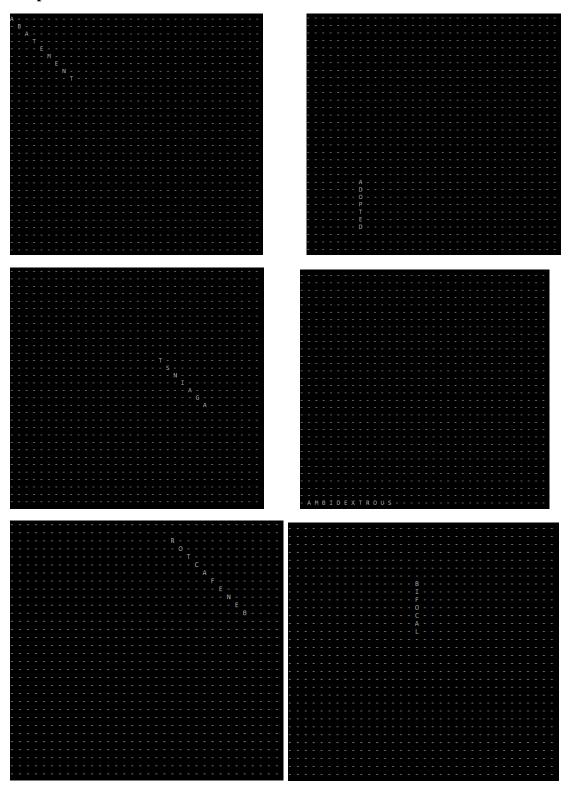
#### 7. large\_1.txt

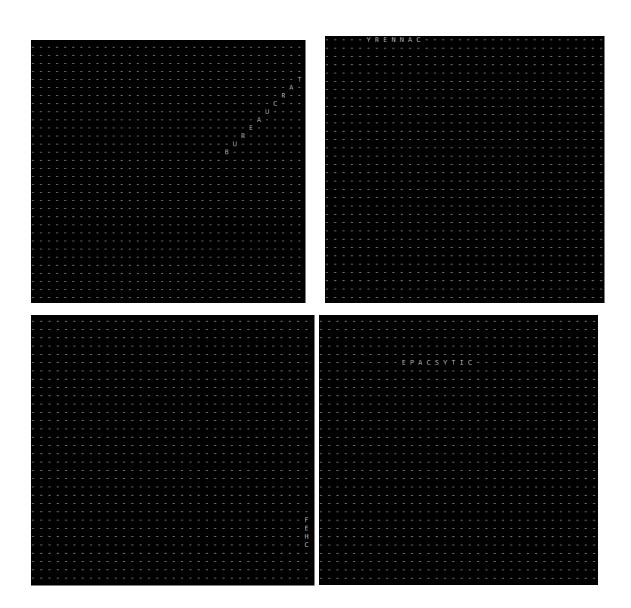
#### **Input:**

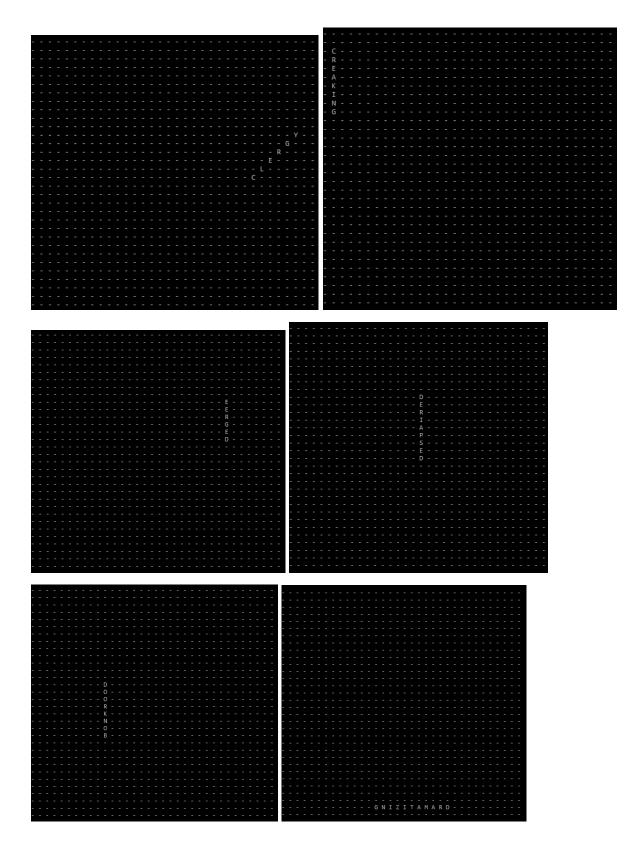
A S Q K K Y R E N N A C Y E I K I S X D V T J K H O N L Q C A V S D C F L C Q F H B O Y L Z W B R T C F M A W B IUUIIN W R F T R V J M K N M S P F U Y P G O Q H O P I A G D I U F D D F U PECAEPOQRQPUDKNJRYTSIMTY PKFTNZU O A T Y H M H G B K E P A C S Y T I C A K R P C F U G T H D M E K W D L O E R E L J H T M U G U T F E E B L YANMOFHURSP Y I B O J D I N H Z F S K D E V B B P V R P E Q X F MNRCMOAJTWAPKXFWICGISBYSXREVOUOOEB A G S Y N C H R O N I Z E P Z H F D N G W E A H F L E N A O I C F D T P I S U Y W X Y A B R E L G X O E I J V I N U R Y E E E C D F Z S P F M D E M I O M G T E T I B B C R D X Y U J Y P D R F T B N U H Q A S S H F I J M A H H O A I E D T L I J P U G P Q M G K T D F E E S T R U W N Y D U V I E V L A E L H S T A B H E E A R F A Y S EKILAGRTOTTEICEPCUCF NF WDEEOBQCE WEWCTRJPOBOHDXKXKSXCGC ISHYLYROZFD M P U N I S H I N G R K I C B N L E E E I V V D A O C R E JHOQX P A M D N I H T K C R H O W S D A V W B N P C G U C E P U D A F Z S O L B V N W I Z Y W O J T P I I Z C K X A Y Z F N H P U REIQJBRPYIORSERSXZZOWEAUSXYLBIIWBS 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 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 V R G V O Q C A Y C Y X O W E E T K H D Z A J H U L W M H I S P Z R Q E N I S P M D I S O Q R H P U K I U U S I N C E R I T Y T R A T R 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 Z E L S U H T P D A A A P G O J E V V A O J C C G H E Y F ESHOE 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 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 I E F O Z W M G T N Z S I Y V J D F V P I D U J I R C V B BUOD F W G S S A P R U S S Y Q G N I Z I T A M A R D D R E E E Q V O J M N A M B I D E X T R O U S Q K S B B I V F R Y X K F V Q F R H J S T

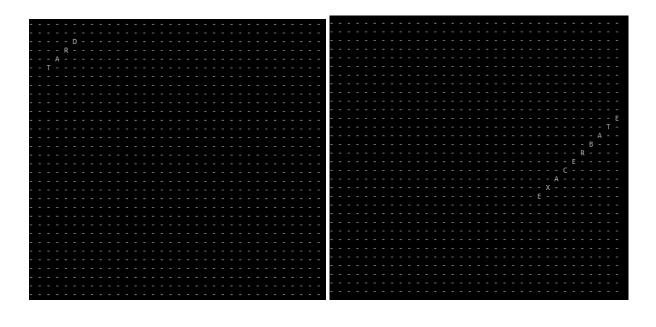
AGAINST **AMBIDEXTROUS** BIFOCAL BUREAUCRAT CANNERY DEGREE DESPAIRED DOORKNOB DRAT EXACERBATE EXCEEDING FONDLING GRAVITATE GRAVY JEEP LIKEN MEMENTO PARADIGM **PILGRIM** REPROVE RESEMBLE REVERE SPARTAN SURPASS SYNCHRONIZEP

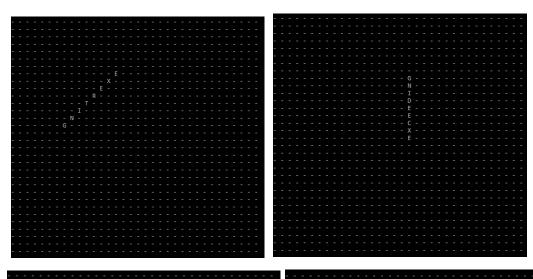
MAKING

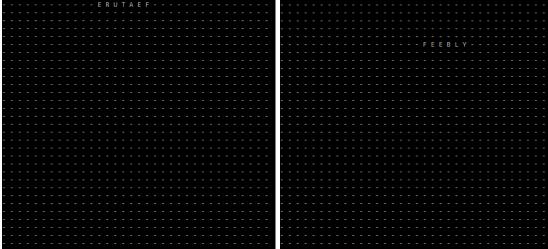


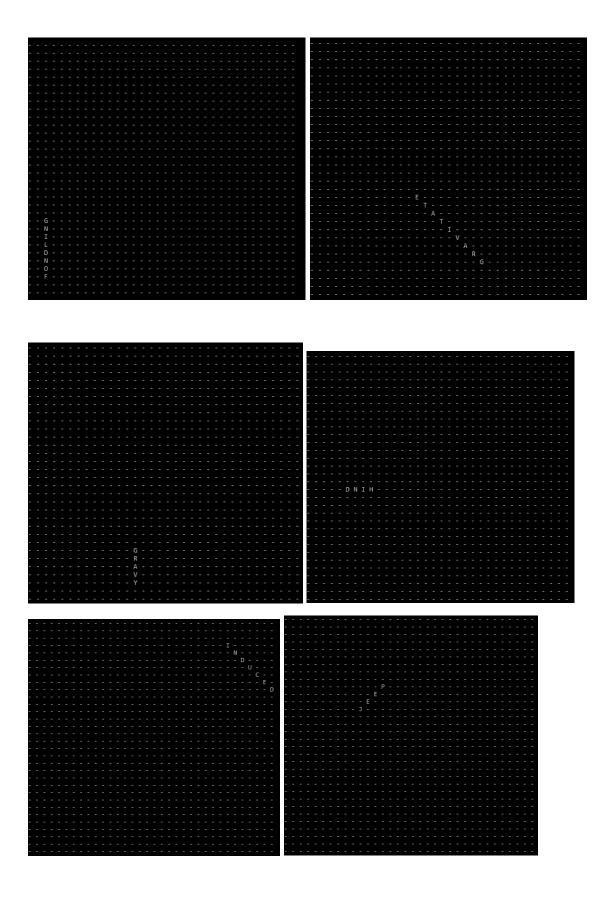


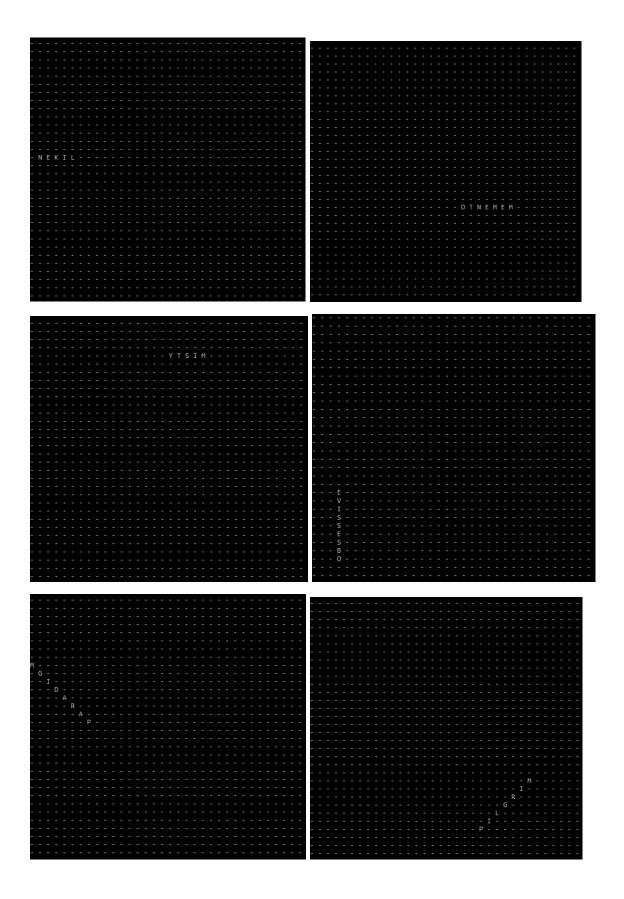


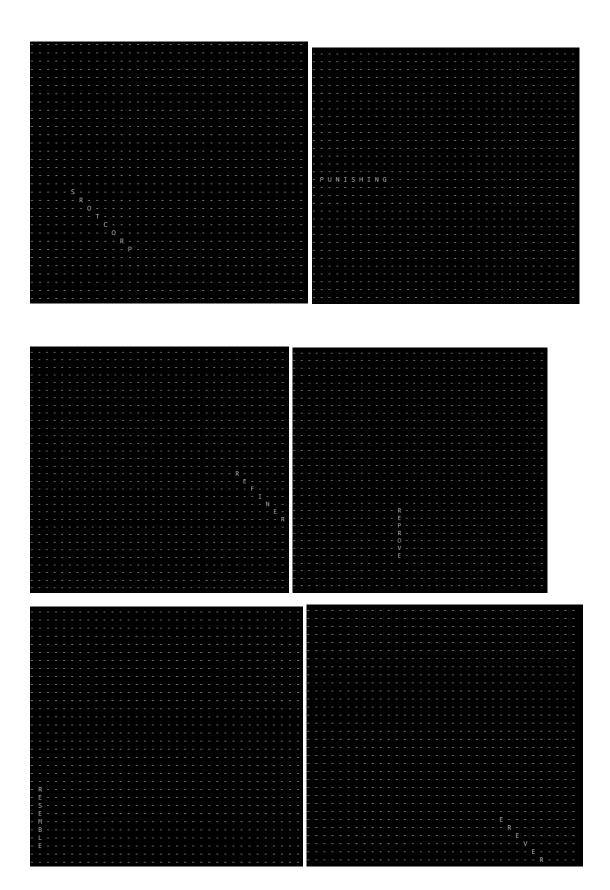


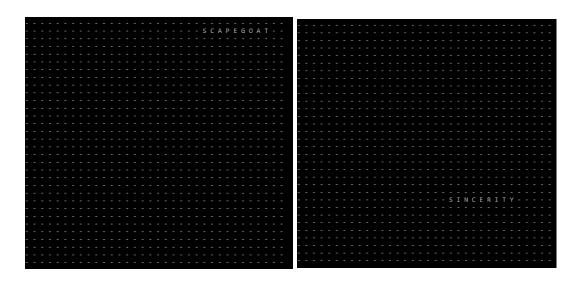


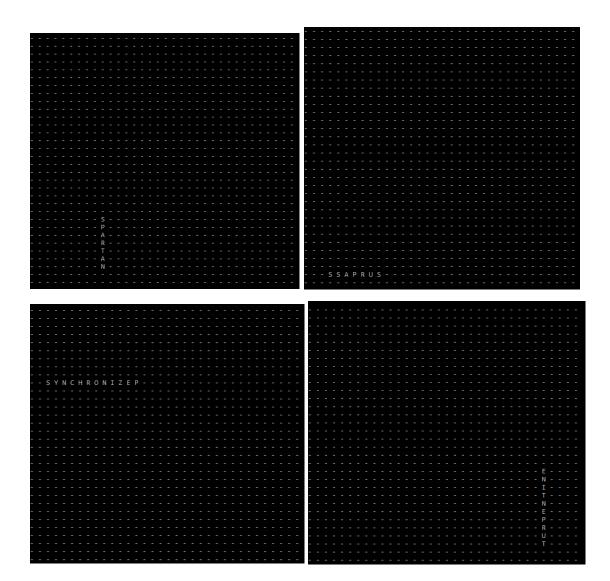


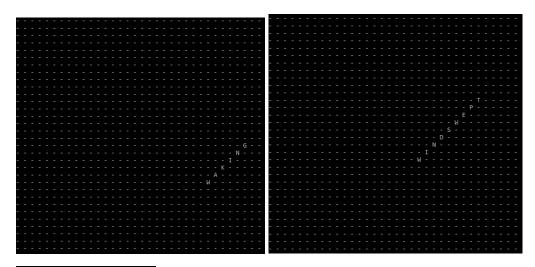












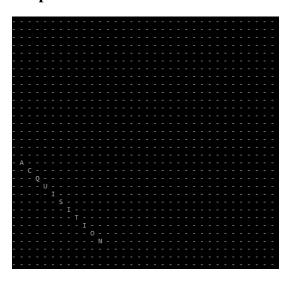
total perbadingan: 18017 elapsed time: 72.5469s

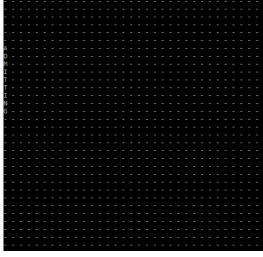
8. large\_2.txt

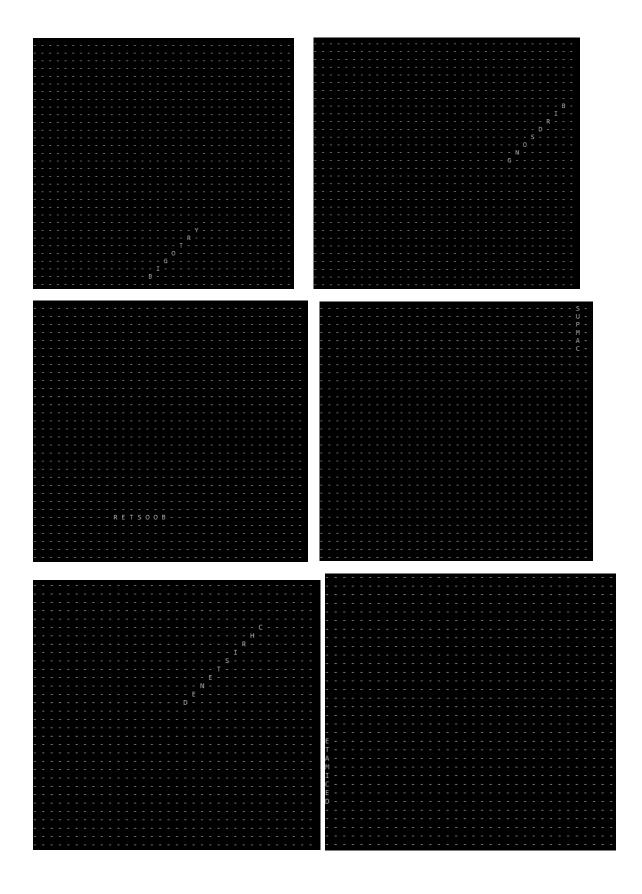
**Input:** 

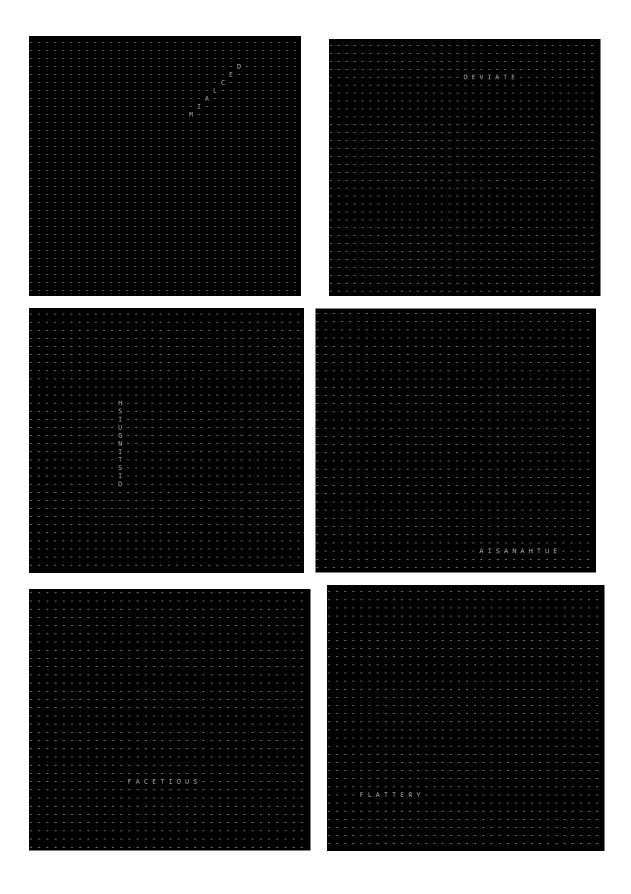
O C Y D M T I A G G W Z D T Q N N W H I F F Z S V V Q Q Y S S P X B D D Z P P F U C N R Q U P X V F S F N V E U W Q Z P S L U E G N D V S C E J O Q G S T H B C U B F K B R C T D U Z O N O Y X P L O B N H E W G G Z X N C H L W G V G S G N M S N E D P O F C Z M C CHNLTISXNBQUIAIIQDEVIA ZMSAIGK HSNYFF SDGWNJIJUWULUDAO KAY DRKHE YCJZOZSMCCF AHWIF ANNRUO J 0 S I F R O Z C N H N S A M X F E L A Y M I 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 E K N I U H IUJOGDMIE NVDOQNGRMNJ TUDEC TRMUZ 1 IMHXQOIMPH ZPQN XPY В IONGEANYSIXSEMEORSVJNDN XONX LS ZSZ NLGHLDAGZSPIDLNPGIQETIETF PLOKOZECL GOWZPMUZZJUUTZDXOEDYYWHNA ZWRPL ZYVZUQGDOUULNU THE ZDA P K O D E T W F O D N N B E S M M C ILSEVNCGGIHWP A G IKN RAWZSLPGOMLTNEYPRQMULHGBI JEKSXIK I 0 P TWLQYUWAANYIGCKW YUS Y N X S AZLQU BI DNO N H J Q A z R MXEMD ΙZ E C IDAJCMSNOCNP FACE TIOUSUH MGOF HAXVHR KRAQGP E O F AR I O TSOOBRN DL нэвм RE ПŐ A Y H O N O W B TNF JVOARNKTSVQGL EJOORAGNAK W SGXQOWMULTIPLEEZIGLDAISANAHTUEU U O M S D T R E R V K E K K L B K S Q J T K O S Z W J E E SYAPY TRNNLUNCLEANLYGVUPTNSAVICARIOUSLYD

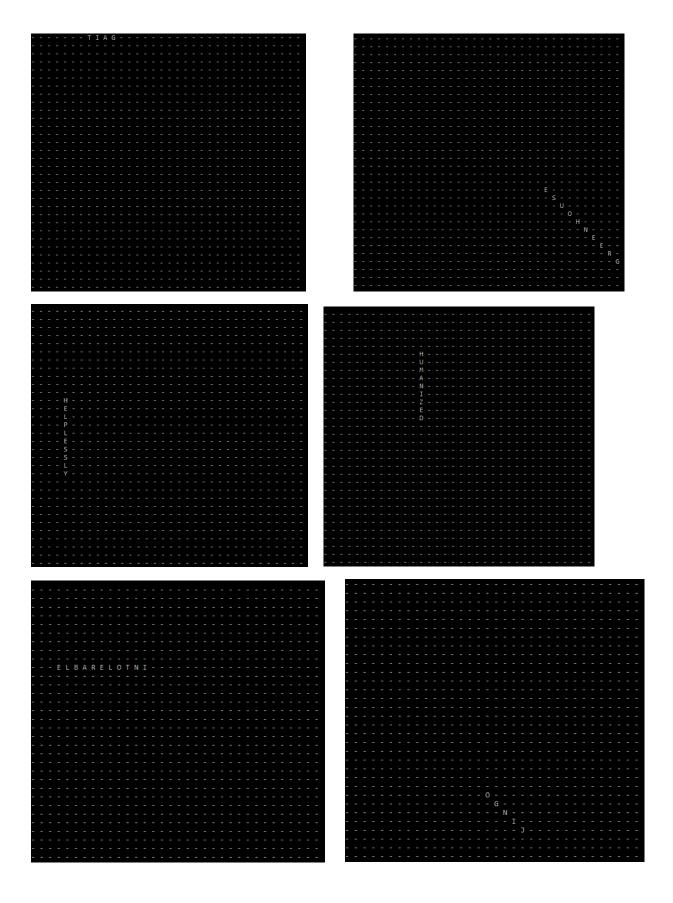
ADMITTING BOOSTER EUTHANASIA FACETIOUS FLATTERY GREENHOUSE HELPLESSLY HUMANIZED INTOLERABLE KANGAROO MISJUDGMENT OBSESSION PARABLE PITCHFORK PROFANE PROSECUTION OUTPPED RECOLLECT REDHEAD REFUSING SCANDALIZED SOJOURN

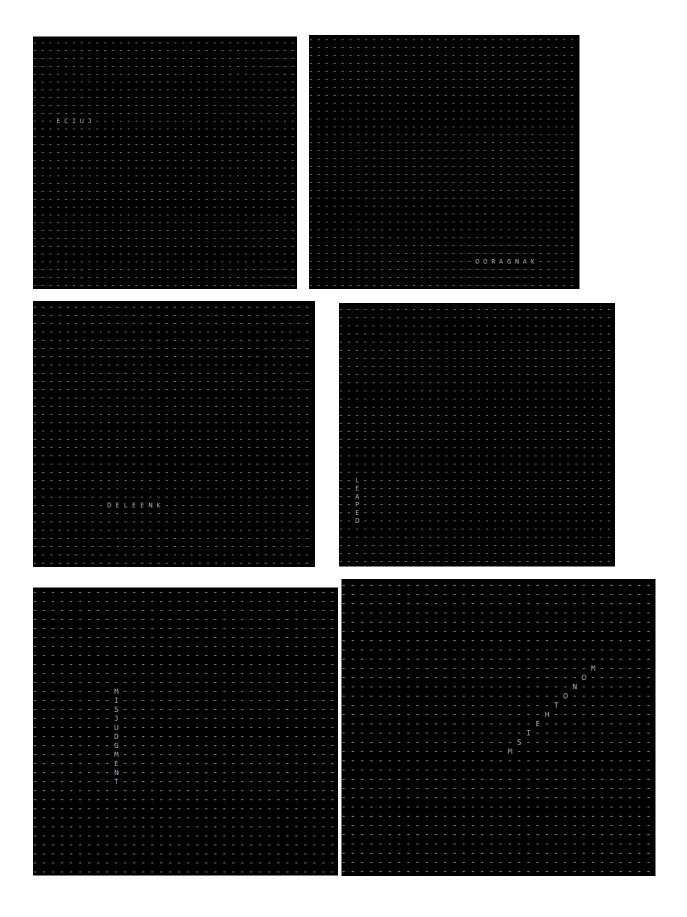


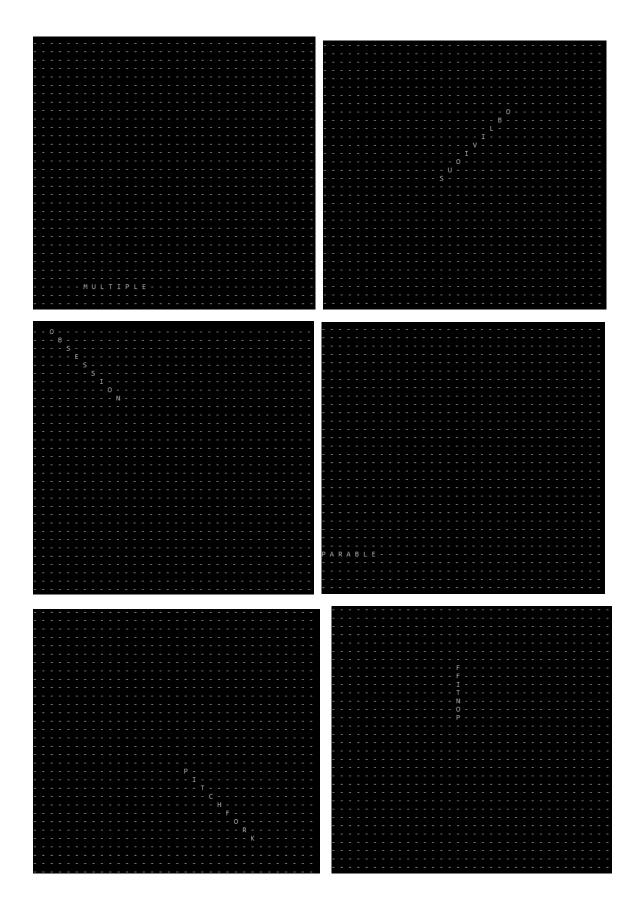


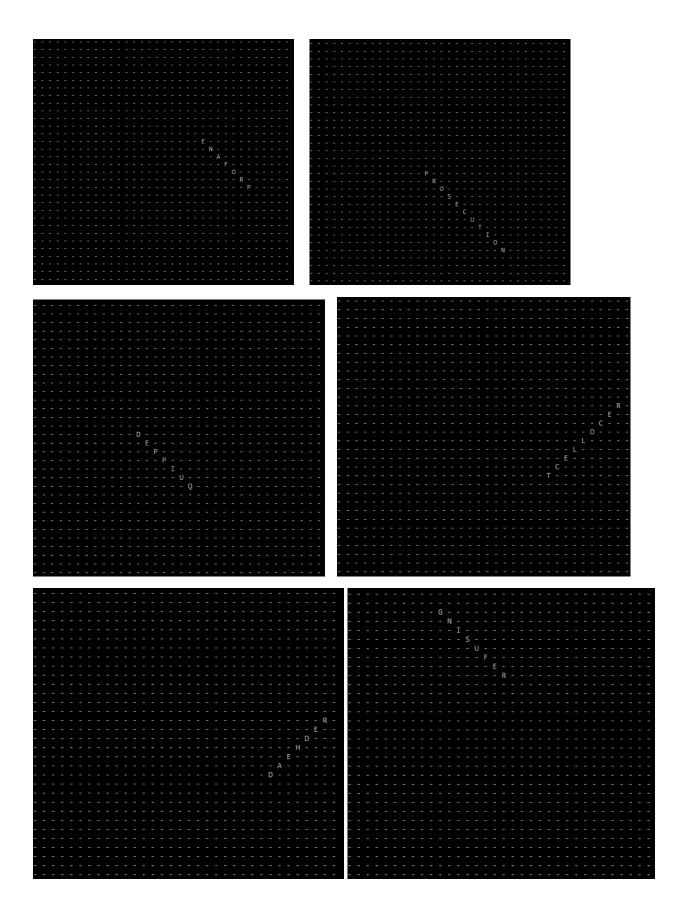


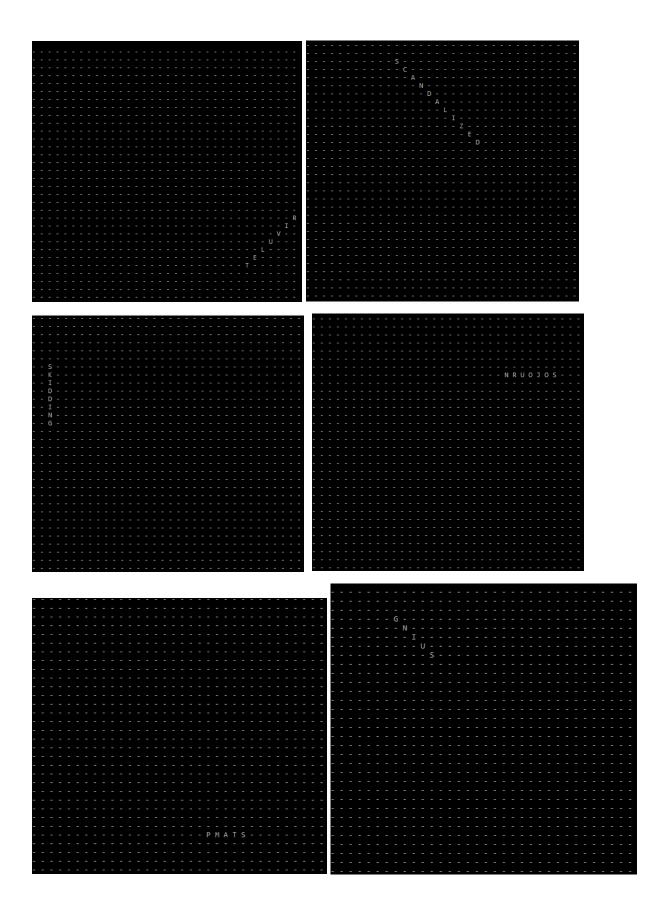


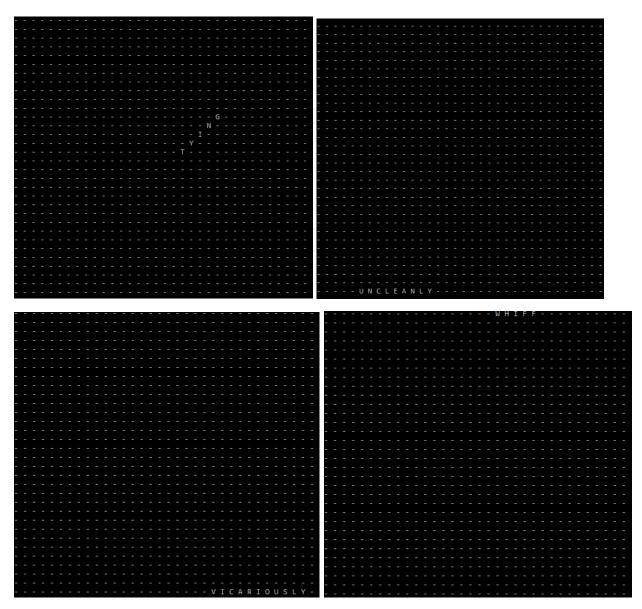












total perbadingan: 17954 elapsed time: 55.5219s

### **BAB IV**

### **KESIMPULAN**

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

### Link drive:

 $\underline{https://drive.google.com/drive/folders/1yZhQ7oUrIyqsDA30q60BwIdxex0HdvSF?usp=sharing} \\ (buka dengan akun std)$