```
1: function MAIN
       T \leftarrow INPUT
2:
       while T \neq 0 do
 3:
           T = T - 1
 4:
           m \leftarrow input
                                                                        > masukkan batas atas dari kunci
 5:
           message[\ ] \leftarrow input
                                                                                      \rhdmasukkan plaintext
 6:
           cipher[\ ] \leftarrow input
                                                                                     \trianglerightmasukkan ciphertext
 7:
           SOLVE(message, chiper, m)
 8:
9:
       end while
10: end function
```

```
1: function SOLVE(message,chiper,m)
                counter \ diketahui \leftarrow 0
                counter yang ingin diketahui \leftarrow 0
  3:
                diketahui[]
  4:
                Selisih diketahui[]
  5:
                ingin_diketahui[]
  6:
                Key[]
  7:
                for i = 0 to message[i] \neq 0; i+=1 do
  8:
                        if message[i] \neq' *' dan \ cipher[i] \neq' *' then
  9:
                                 diketahui[counter \ diketahui] = i
10:
                                 Selisih\_diketahui[i] = (message[i] - cipher[i] + 26)\%26
11:
                                 counter\_diketahui = counter\_diketahui + 1
12:
                        else if message[i] = '*' dan \ cipher[i] \neq '*' then
13:
                                 ingin \ diketahui[counter \ yang \ ingin \ diketahui] = i
14:
                                 counter yang ingin diketahui + 1
15:
                        end if
16:
                end for
17:
                m = min(m, panjang\ message)
18:
                for n = \frac{m}{2} + 1 to n \le m; n + 1 = 1 do
19:
20:
                        if VALIDITY(Key, counter\_diketahui, diketahui, Selisih\_diketahui, n) = True
        then
21:
                                 counter \leftarrow 0
                                 while counter \neq sizeof(ingin \ diketahui) do
22:
                                         if Key[ingin\_diketahui[counter]\%n] = null then
23:
                                                 message[ingin \ diketahui[counter]] = '*'
24:
                                                 remove element index i in ingin_ diketahui
25:
                                         else if message[ingin \ diketahui[counter]] =' *' then
26:
27:
                                                 message[ingin\_diketahui[counter]] = (ciphertext[ingin\_diketahui[counter]] - (ciphert
        Key[ingin\ diketahui[counter] + 26)\%26
                                                 counter = counter + 1
28:
                                                                           if
                                                                                                       message[ingin \ diketahui[counter]]
29:
                                         else
          (ciphertext[inqin \ diketahui[counter]] - Key[inqin \ diketahui[counter] + 26) \%26) then
30:
                                                 message[ingin \ diketahui[counter]] = '*'
                                                 remove element index i in ingin diketahui
31:
32:
                                         else
                                                 counter = counter + 1
33:
                                         end if
34:
                                 end while
35:
                        end if
36:
                end for
37:
38:
                puts(message)
39: end function
```

```
1: function VALIDITY(Key, counter\_diketahui, diketahui, Selisih\_diketahui, n)
      Initialize(Key, -1)
      for i = 0 to i < counter\_diketahui; i+=1 do
3:
         temp = diketahui[i] \\
4:
         if Key[temp\%n] = -1 then
5:
             Key[temp\%n] = Selisih\_diketahui[temp]
6:
         else if Key[temp\%n] \neq Selisih\_diketahui[temp] then return False
7:
         end if
8:
      end for
9:
      return True
11: end function
```