```
Nama : Syarifah Nurhafri A.
        EIE1 20 094
    NIM
   Kelas
         : Genap
                       Tugas kriptografi
    Algoritma RC9
K . Saputral => Koes, Ki aq. Ke p, Ks . u, Kq = E. Ks . r. Ku = a, Ka =1
 array 5 = [0.1.2.3.9.5.6. ... , 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255]
  ر المحلق
   iterasi Pertama -> 1=0
Ke 20 100 100
   .> j = (j+s(i) + K[i mod len(k)]) mod 256
       = (0 + 0 + k [0 4.8]) % 256
      = (K (0)) % 256
       2 ("5") % 256 =) nilai desimal dari "5" = 115
      = 115 % 266 375 MILE MARKET A FERRALE NO.
     J = 115
   swap (s [i] , s [j])
    swap (s lo], s [115])
 array s = [115, 1, 2, 3, 9, 5, 6, 7, ..., 110, 111, 112, 113, 119, 0, 116, 117, ..., 199, 200,
         201, 202, 203, 204, 205, ..., 250, 251, 252, 253, 254, 255]
   iterasi kedua -> i=1
  => j = (j + s(i) + k [i % len(k)]) % 256
         = (115 + S(1)+ k (1 % 8]) / 266
         2 (115+1+k[1]) % 256
         = (116 +"a") 1. 256 =) desimal dari "0" = 97
         = (116+97) 1/0 256
         = 213 % 256
       9 = 213
      Swap (s [i], s [j])
      Swap (S[1], S[213])
     Array S = [115, 213, 2, 3, 4, 5, 6, 7, ..., 112, 113, 114, 0, 116, ..., 210, 211,
               212, 1, 214, ..., 250, 251, 252, 253, 254, 255]
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iterasi kagina - 1 = 2
  >> Jo (j + S [1] + k [1 % len (k)]) % 256
      : (213+3[2]+k [2968] % erc
       = (213+2+ k[27) % 256
       " (215+ "p") y. esc => desimal dari "p" = 112
       0 (4512 + 115 ) 1/2 526
      0 327 % 256
    7 = 71
Swap (S[i], S[j])
   swap (s[2], s[21])
   Array S = [115, 213, 71, 3, 9, 5, 6, 7, ..., 69, 70, 2, 72, ..., 112, 113, 114,0,
           116..., 210, 211, 212, 1, 214, ..., 250, 251, 252, 253, 254, 255]
 iterasi keempat -> 1=3
  J= 71
   >> J = (J+S[i] + K[i % len (K)]) % 256
      = (71+5[3]+ K[3 168]) 1/256
     = (24+6-) $ 206 (71+3+ K[3]) % 256
      = (74 + "u") y. 256 => desimal dari "u"=117
      = (74+117) % 256
  J = 191 18 8 7 5 29 129 129 129 129 129 129 129
   swap (s[i], s[j])
   Swap (5 [3], S [191])
   array S = [115,213,71,191,9,5,6,7,...,89,70,2,72,...,112,113,119,0,
          116, ..., 189,190,3, 1921..., 210, 211,1, 219,..., 250, 251,
           252,253,254,255]
iterasi kelima -> 1= 9
 J = 191
 => J = (j + S[i] + k [i % len (k)]) % 256
    : (191+5 [4] + k [4 % 8]) % 256
    = (100191+9+k [4]) 1/6 256
    : (195 + 116) 1/2 256
  : 311 % 256
  j : 55
  Swap (S [i], S [j])
```

```
[22] 2 1 [4] 2 ( SE) gows
  Array S: [115, 213, 71, 191,55, 5, 6, 7,8, ..., 53,59,4,56,57, ..., 69,
          70,2,72,73,..., 113,119,0,116,117, ..., 189,190,8,192,...
          211, 212, 1, 214, ..., 250, 251, 252, 25 3, 254, 255]
 /terasi keenam -> 1 =5
 j =55
 => j = (j+s [i] + k [i mod len (k) J]) mod 256
     = (55 + 5 [5] + K[5 mod 8]) mod 256
      = (55+5+K[5]) mod 256
      " (60 + "r") mod 256 -> ascii r = 119 (desimal)
      = (60 + 119) mod 256
= 174 mod 256
 0:174
swap = (s [i]; s [j])
   Swap = (S[5], S[174])
  Array S = [115,213, 71,191, 55,174,61..., 59,9,56,...,70,2,72,...,119,
           0,116,... 170,171,172,173,5,175,...,2557
 Heras ketujuh -> 1=6
  1 = 174
   -> j = (j + S [i] + k [i mod len (k)j) mod 256
        = (179 + S[6] + K [6 mod &]) mod 256
        = (174 + 6+ K[6]) mod 286
        = (180 + "a") mod 256 -> ascii a = 97 (desimal)
        = (180 fg7) mod 25C
        = 277 mod 256
      1 = 21
   swap = (S[i], S[j])
   Swap = (5[6], 5[21])
   Array S = [115,213,71,191,55,179,21,7,...,20,6,22,...,59,9,56,
           ..., 70,2,72,..., 119,0,116,..., 192,173,5,175,...,255
```

```
Heran Kedelapan - > 1 = 7
$ J = 21
 => j = (j + S[i] + k[i mod len (k)]) mod ere
   j = (21 + 7 + k [7 mod (8)]) mod 256
   J = (28+49) Kg ) mod 256
   j = (20+99) mod 256
  : 77 mod 256 - 28 bara $ 18 bara 33 4 5 122 2 = 73
                             Jan Bon Lalacatera
  0 = 77
 Swap = (S[i], (S[j]) AN = 7 MORD (- 276 BARM 17 10)
 Swap: (5[7], S[77])
 array 5= [115, 213, 71,191, 15, 174, 21, 77, 0,9, ..., 20, 6, 22, ..., 59,9,
        561..., 70,2,72,73,74,75,76,7,78,...,114,0,116,...,173,
        5175...., 190,3,192,..., 212,11,219, :..., 253,254, 255]
 a property of the second of the second of the second of the second of the second
             Continued the Highest Profession of the
                       day (-- points) dorr
         342 Part ( I (x) u) part ( x + (1) ) +
              18 271 bom ( 18 bom 2 ) 4 (0) 1 + 1+1
                          245 para [[3] x 4 2 2 6 7 1)
          (180+"4") mod 25 mod 1000 ( 00 34 ( 184 mod)
                                27: KOM ( ( ) + 08:1 .
                                   (1111), [212] , cons
ないのではないできるとはもし、いいはいとは、 12日·この時、
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PGRA
Array 8 = [115, 213, 71,191, 85,174,21,77,8,9,10,...,20,6,22,...,54,4,
         56 .... , 20.2.72 .... , 76.7.78 . ... , 119 ,0,116 ... , 173 ,5 ,175,
         ..., 190, 3, 192, ..., 212, 1,219, ..., 754, 255]
Plainteks /P = 2099
iteras pertama -> i=0 1
J=0
 for index = 0 to len (P)-1
          = 0 to (4)-1 = 0 to (3)
  i = (i+1) mod 256
                      was been [ bar
 i = (0+1) mod 256 20 home
  i = 1
 (j = (j + s[i]) mod 256
 j = (0 + S[1]) mod 256
 j = (0 + 213) mod 256 = 213 mod 256
 J = 213
 Swap (s [i], S [j] = (s Ei], s [213])
  L = (5[1] + S[213]) mod 256
                 mod 256 = 219 mod 256
  t: 1 + 213
  t = 219
  U = S [ 219]
   C = U & P[0]
     = 219 0 2
     = 11010110
      00 11 00 10
                      = 228 = à Jas bom (18)1+ &s
       11 100100
```

```
iterasi kedua ---> i=1
 J = 213
 for Index = 0 to (3)
1 = (1+1) mod 256
1 : (1+1) mod 256
  i = 2
  J = () + S[i]) mod 256
  J = (213 + S[2]) mod 256
  J = (213 + 71) mod 256 = 284 mod 256
  J = (213 = 3. 28
  Swap (S[i]), S[j]) = (S[2], S[28])
   t = (S[2] + S[20] mod 256
  f = (20+71) mod 256 = 99 mod 256
  £ = 99
  u : S [99]
  C = U @ PP[1]
    = 99 0 0 22 born 818 0 077 born (812 0 0)
     = 801100011 01100011
      01010011 == 03 = S (peapital)
  iterasi kutiga -> i = 2
  j = 28
   for Indeks = 0 to (3)
   i = (i+1) mod 256
   1 = (2+1) mod 256
   1 = 3
   j = (j+s[i]) mod 256
   () = (28+5[3]) mod 256
   ( = (28+191) mod 256 = 219 mod 256
   j = 219
   swap (S [i], S [j] = (S[3], S [219])
  t = (S[3]+S[219]) mod 256
   t = (219 +191) mod 256 = 410 mod 256
    t = 184
    u = S [159]
```

```
C=40 p[2]
     = 9154 8 9
     = 10011010
        00111001 0
        10 10 00 11 = 163 = £
iterad keempa -> 1 = 3
J= 1219
   for indeks = 0 to (3)
   1 = (i+1) mod 256
   1 = (3+1) mod 206
 j = (j + 5 [1]) mod 256
 1 = (219 + S[3]) mod 256
9 = (219 + 55) mud 256 = 279 mod 256
 j = 18
 Swap = (Sti], Stj])
  = (S[A], S[18])
 t = (S[4] + S[18]) mod 256
 t = (18 +55) mod 256
 = 73
 4 2 8 [73]
 C = U & P[3]
    = 7304
    2 01 00 1001
      0011 0100
                       = 125 = (3)
      01111101
     = 125
```