```
(A1)
   3NN ES
       ABCDEFGHIJK
   BDF BCDEFGHIJK
Α
В
   ACD CDEFGHIJK
С
   BEI DEFGHIJK
D
   GEF DEFGHIJK
Ε
   HDI DFGHIJK
F
   GJD DFGHIJK
G
   FDH DFGHIJK
Н
   EDG DFGHIJK
Ι
   EHC DFGHJK
J
   FGK DFGHK
Κ
   JGD DFGHK
(A2)
   1NN CS
Κ
       Κ
       ΚJ
J
   Κ
Ι
   Κ
       KJI
   Ι
Н
       KJIH
G
   Н
       KJIH
   J
F
       KJIHF
Ε
   Н
       KJIHFE
   Ε
D
       KJIHFED
С
   Т
       KJIHFEDC
   С
В
       KJIHFEDCB
Α
   В
       KJIHFEDCB
(A3)
Q=(6,7)
3NN στο TS: HEI => white
3NN στο ES: HDG => black
3NN στο CS: HEI => white
(B1)
BHMA
      1:
           a(0)
                  b(4) c(5)
                                  d(8)
                                         e(12)
                                                 f(14)
                                                        g(16)
                                                                h(17)
                                                                       i(18)
                                                                               j(20)
                                                        g(16) h(17)
BHMA
      2:
           a(0)
                  bc(4,5)
                                  d(8)
                                         e(12)
                                                 f(14)
                                                                       i(18)
                                                                               j(20)
                  bc(4,5)
BHMA
      3:
           a(0)
                                  d(8)
                                         e(12)
                                                 f(14)
                                                        gh(16,17)
                                                                       i(18)
                                                                               j(20)
BHMA
      4:
                  bc(4,5)
                                  d(8)
                                         e(12)
                                                f(14)
                                                        ghi(16,17,18)
                                                                               j(20)
           a(0)
                                         ef(12,14)
                  bc(4,5)
                                                       ghi(16,17,18)
BHMA
      5:
           a(0)
                                  d(8)
                                                                               j(20)
                  bc(4,5)
BHMA
           a(0)
                                  d(8)
                                         efghi(12,14,16,17,18)
      6:
                                                                               j(20)
BHMA
      7:
           a(0)
                                  d(8)
                                         efghij(12,14,16,17,18,20)
                  bc(4,5)
BHMA
      8:
           a(0)
                  bcd(4,5,8)
                                         efghij(12,14,16,17,18,20)
           abcd(0,4,5,8)
                                         efghij(12,14,16,17,18,20)
BHMA
     9:
BHMA 10:
           abcdefghij (0,4,5,812,14,16,17,18,20)
```

```
(B2)
BHMA
      1:
           a(0)
                   b(4)
                           c(5)
                                   d(8)
                                           e(12)
                                                   f(14)
                                                           g(16)
                                                                  h(17)
                                                                          i(18)
                                                                                  j(20)
                   bc(4,5)
                                                           g(16) h(17)
                                                                                  j(20)
BHMA
                                   d(8)
                                           e(12)
                                                   f(14)
                                                                          i(18)
      2:
           a(0)
                                                                                  j(20)
           a(0)
                   bc(4,5)
                                   d(8)
                                           e(12) f(14)
                                                           gh(16,17)
                                                                          i(18)
BHMA
      3:
BHMA
           a(0)
                   bc(4,5)
                                   d(8)
                                           ef(12,14)
                                                           gh(16,17)
                                                                          i(18)
      4:
                                                                                  j(20)
BHMA
      5:
           a(0)
                   bc(4,5)
                                   d(8)
                                           ef(12,14)
                                                           ghi(16,17,18)
                                                                                  j(20)
BHMA
      6:
           a(0)
                   bcd(4,5,8)
                                           ef(12,14)
                                                           ghi(16,17,18)
                                                                                  j(20)
BHMA
      7:
           a(0)
                   bcd(4,5,8)
                                           ef(12,14)
                                                           ghij(16,17,18,20)
BHMA
      8:
           abcd(0,4,5,8)
                                           ef(12,14)
                                                           ghij(16,17,18,20)
BHMA
      9:
           abcd(0,4,5,8)
                                           efghij(12,14,16,17,18,20)
           abcdefghij (0,4,5,812,14,16,17,18,20)
BHMA 10:
(B3)
BHMA 1:
                   C1Centroid=15
                                       C2Centroid=17
                                                           C3Centroid=19
ανάθεση σημείων: C1(abcdefg)
                                       C2(hi)
                                                           C3(j)
BHMA 2:
                   C1Centroid=8.43
                                       C2Centroid=17.5
                                                           C3Centroid=20
ανάθεση σημείων: C1(abcde)
                                       C2(fghi)
                                                           C3(j)
BHMA 3:
                   C1Centroid=5.8
                                       C2Centroid=16.25
                                                          C3Centroid=20
ανάθεση σημείων:
                   C1(abcd)
                                       C2(efghi)
                                                           C3(j)
BHMA 4:
                   C1Centroid=4.25
                                       C2Centroid=15.4
                                                           C3Centroid=20
ανάθεση σημείων: C1(abcd)
                                       C2(efgh)
                                                           C3(ii)
BHMA 5:
                   C1Centroid=4.25
                                       C2Centroid=14.75
                                                          C3Centroid=19
ανάθεση σημείων: C1(abcd)
                                       C2(efg)
                                                           C3(hij)
BHMA 6:
                   C1Centroid=4.25
                                       C2Centroid=14
                                                           C3Centroid=18.33
\alpha \vee \alpha \theta \in \sigma \eta \sigma \eta \mu \in \dot{\omega} \vee \dot{\omega} \in C1(abcd)
                                       C2(efg)
                                                           C3(hij) ΔΕΝ ΥΠΑΡΧΕΙ ΑΛΛΑΓΗ
(B4)
eps=3, minpts=3
    eps-neighborhood
а
    а
b
   bc
С
    bcd
    cd
d
е
    ef
f
    efgh
    fghi
g
    fghij
h
i
    ghij
j
   hij
Άρα
CORE
        cfghij
BORDER bde
NOISE a
Clusters
C1 = \{bcd\}
C2 = {efghij}
```