

Matrix after modifying and replacing value less then 0.55:

1-st cluster

Step 1:

$I = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33\}$, $C = \{ \}$

Step 2-4:

- Find maximum value:

$A_{2,6} = 0.95$ put index to $C = \{ \}$: $C_1 = \{6, 2\}$

- Find index of the columns, where sum is maximum:

$Max_3 = 1.9$ $C_1 = \{2, 6, 3\}$.

- Find index of the columns, where sum is maximum:

$Max_7 = Max_9 = Max_{31} = 1.8$ $C_1 = \{2, 6, 3, 7, 9, 31\}$.

- Find index of the columns, where sum is maximum:

$Max_4 = Max_{20} = Max_{28} = Max_{29} = Max_{30} = 1.6$ $C_1 = \{2, 3, 4, 6, 7, 9, 20, 28, 29, 30, 31\}$.

$C_1 = \{2, 3, 4, 6, 7, 9, 20, 28, 29, 30, 31\} \Rightarrow \{Б, В, Г, Е, Ё, З, Т, Ъ, Ы, Ь, Э\}$

Step 5:

$I = I - C = \{1, 5, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 32, 33\}$ $C = \{ \}$

2-nd cluster

Step 2-4:

- Find maximum value:

$A_{5,13} = 0.9$ put index to $C = \{ \}$: $C_2 = \{13, 5\}$,

- Find index of the columns, where sum is maximum:

$Max_1 = Max_{17} = 1.8$ $C_2 = \{1, 5, 13, 17\}$.

- Find index of the columns, where sum is maximum:

$Max_8 = Max_{21} = Max_{22} = Max_{23} = Max_{24} = Max_{25} = Max_{26} = Max_{27} = Max_{32} = Max_{33} = 1.8$

$C_2 = \{1, 5, 8, 13, 17, 21, 22, 23, 24, 25, 26, 27, 32, 33\}$.

- Find index of the columns, where sum is maximum:

$Max_{15} = Max_{16} = 1.6$ $C_2 = \{1, 5, 8, 13, 15, 16, 17, 21, 22, 23, 24, 25, 26, 27, 32, 33\}$.

- Find index of the columns, where sum is maximum:

$Max_{12} = Max_{14} = Max_{19} = 1.4$ $C_2 = \{1, 5, 8, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 24, 25, 26, 27, 32, 33\}$.

$C_2 = \{1, 5, 8, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 24, 25, 26, 27, 32, 33\} \Rightarrow \{А, Д, Ж, К, Л, М, Н, О, П, С, У, Ф, Х, Ц, Ч, Ш, Щ, Ю, Я\}$

Step 5:

$I = I - C = \{10, 11, 18\}$

$C = \{ \}$

3-rd cluster

Step 1:

$I = \{10, 11, 18\}, C = \{ \}$

Step 2-4:

- Find maximum value:

$A_{10,11} = 0.9$ put index to $C = \{ \}$: $C_3 = \{10, 11\}$

$C_3 = \{10, 11\} \Rightarrow \{И, Ы\}$

Step 5:

$I = I - C = \{18\}$ $C = \{ \}$

Last cluster is: $C_4 = \{18\} \Rightarrow \{Р\}$

The result cluster is: $C = \{$

$\{Б, В, Г, Е, Ё, З, Т, Ъ, Ы, Ь, Э\},$
 $\{А, Д, Ж, К, Л, М, Н, О, П, С, У, Ф, Х, Ц, Ч, Ш, Щ, Ю, Я\},$
 $\{И, Ы\},$
 $\{Р\}$
 $\};$