Project **AMM (_A_ dvanced _M_ atching _M_ echanism)** _by_ **N _P_ aul**

the diagram:

Raw Binary Array1:

0
0
1
1
0
0
1
1

Raw Binary Array2:

0
1
0
0
1
1
0
0

(Matching Accuracy Rate: in this case 1 element of Processed array is for every 2 element of Raw array, i.e = 1/2 = 50%)

This rate will determine how accurately to match the binary array.

The user can adjust the machining accuracy rate so that they can get the highest matching percentage in a certain accuracy rate.

Ranged from 0 to 1
(like 1/3 = 33.33% or 1/2 = 50% or 1 = 100 %)

Processed Binary Array1:

0
1
0
1

Processed Binary Array2:

1
0
1
0

Matching Percentage.: This function will calculate the **percentage of similarity between** the elements of **two processed binary arrays**.

in this case
       is 0 match with 1 -> No
       is 1 match with 0 -> No
       is 0 match with 1 -> No
       is 1 match with 0 -> No

:. Matching Rate = 0 out of 4
:. Matching Percentage = 0%

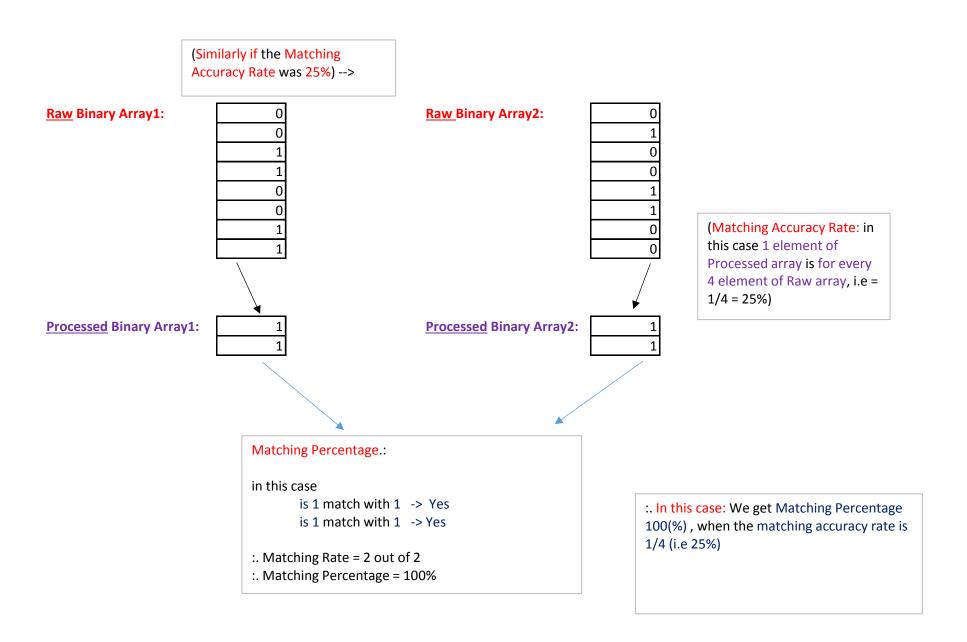:. In this case: We get Matching Percentage 0(%) , when the matching accuracy rate is 1/2 (i.e 50%)

FaceBook: www.facebook.com/a.new.way.technical/
GitHub: www.github.com/nirmalpaul383/
Youtube: www.youtube.com/channel/UCY6JY8bTlR7hZEvhy6Pldxg/

(Similarly if the Matching Accuracy Rate was 25%) -->

Raw Binary Array1:

0
0
1
1
0
0
1
1

Raw Binary Array2:

0
1
0
0
1
1
0
0

(Matching Accuracy Rate: in this case 1 element of Processed array is for every 4 element of Raw array, i.e = 1/4 = 25%)

Processed Binary Array1:

1
1

Processed Binary Array2:

1
1

Matching Percentage.:

in this case
      is 1 match with 1   -> Yes
      is 1 match with 1   -> Yes

:. Matching Rate = 2 out of 2
:. Matching Percentage = 100%

:. In this case: We get Matching Percentage 100(%) , when the matching accuracy rate is 1/4 (i.e 25%)