

# Partner Selection

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We have to find  $n$  best possible partners out of  $2n$  people on the basis of their preference list in priority order.

## Approach

We are assigning weight to the preference of every person on the basis of priority. Now, add the weights of every two persons in a pair. Now, travel them in increasing order and choose the pairs such that two persons are partners only when they have no better option left in their priority list. Example: A will choose B as a partner only if all his higher preferences are not available, otherwise we will first choose next best possible pair and then come back to A and B again.

## Files attached

output: It contains the partner list as per our approach

partner.py: It contains the source code of our approach

pref.csv: It is an input file for our code

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