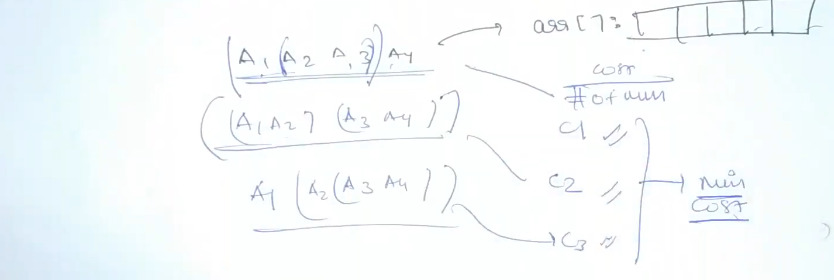
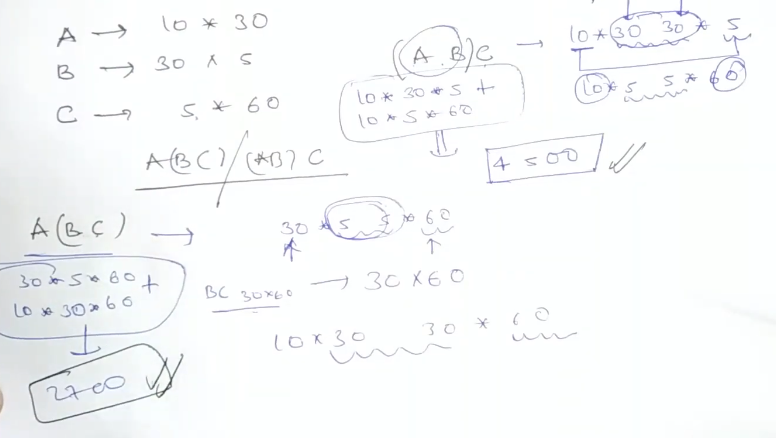
**1) MCM Identification and general format.**

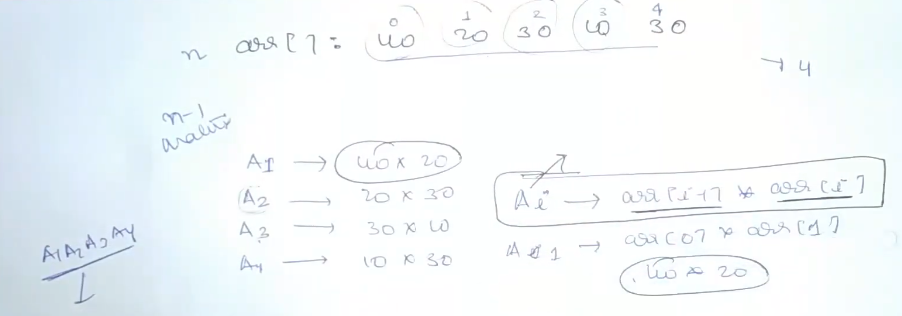
Array or String will be given. Suppose i is the first index of the array and j is the last index of the array. Then we will split the array in i to k, and k+1 to j. this will give the two-temp array. We will combine both temp array to find out resultant array.

If two matric a x b and c x d is given. We can multiply this 2 matrix if and only if b == c and new resultant matrix will be of dimension a x d

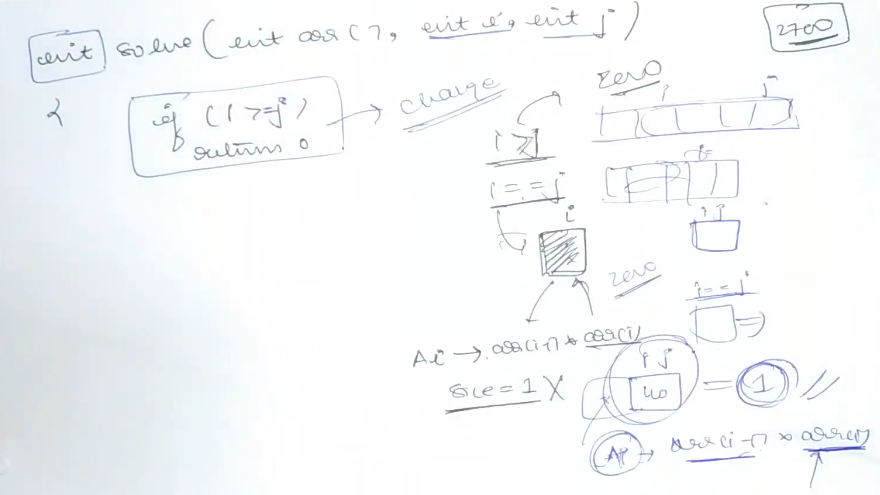
And cost of the matrix multiplication will be a \* b\* d( here b and c is equal so we will consider only one).

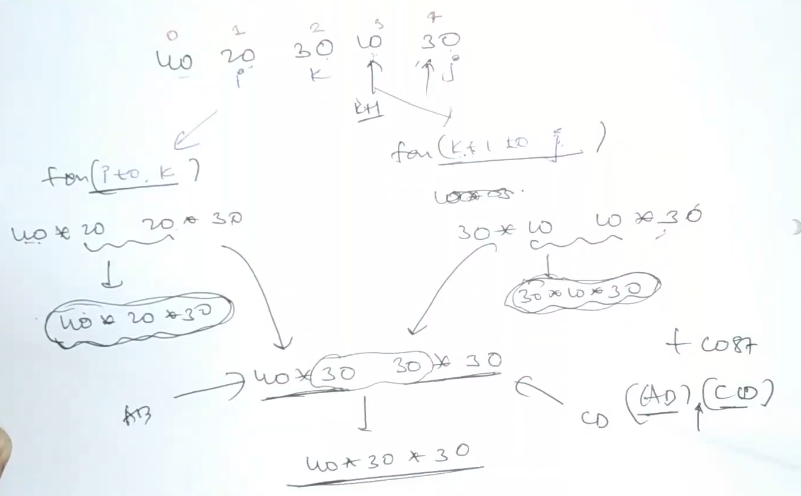






**2) MCM Recursive approach**





<https://github.com/hareramcse/Datastructure/blob/master/DP/src/com/hs/dp/mcm/MCM.java>

3) MCM with memoization

<https://github.com/hareramcse/Datastructure/blob/master/DP/src/com/hs/dp/mcm/MCMWithMemoization.java>

**4) Palindrome Partitioning**

String str = "ababbbabbababa";

Given a string str, partition str such that every substring of the partition is a palindrome.

Return *the minimum cuts needed* for a palindrome partitioning of str.