3 July

**C Program to generate All possible combination of a given list of numbers.**

#include<stdio.h>

#include<string.h>

#define N 10

void print(int \*num, int n)

{

int i;

for ( i = 0 ; i < n ; i++)

printf("%d ", num[i]);

printf("\n");

}

int main()

{

int num[N];

int temp;

int i, n, j;

printf("\nHow many number you want to enter: ");

scanf("%d", &n);

printf("\nEnter a list of numbers to see all combinations:\n");

for (i = 0 ; i < n; i++)

scanf("%d", &num[i]);

printf("\nThe combinations are:\n");

for (j = 1; j <= n; j++) {

for (i = 0; i < n-1; i++) {

temp = num[i];

num[i] = num[i+1];

num[i+1] = temp;

print(num, n);

}

}

return 0;

}