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/*
name : Durvesh D. Dhake
section: A
roll no: A-48
batch: A-2
*/

// 5. A program for producing permutation set for given input set.
#include<stdio.h>
void print(int *num, int n)
{
    int i;
    for ( i = 0 ; i < n ; i++)
        printf("%d ", num[i]);
    printf("\n");
}
void main()
{
    int num[10];
    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 permutations:\n");
    for (i = 0 ; i < n; i++)
        scanf("%d", &num[i]);

    printf("\n Permutations are:");
    for (i = 0; i < n; i++)
    {
        for (j = 0; j < n-1; j++)
        {
            temp = num[j];
            num[j] = num[j+1];
            num[j+1] = temp;
            print(num, n);
        }
    }

}

```

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/*
output:

```

How many number you want to enter: 2

Enter a list of numbers to see all permutations:

2
2

Permutations are:2 2

```

2 2
*/

```

