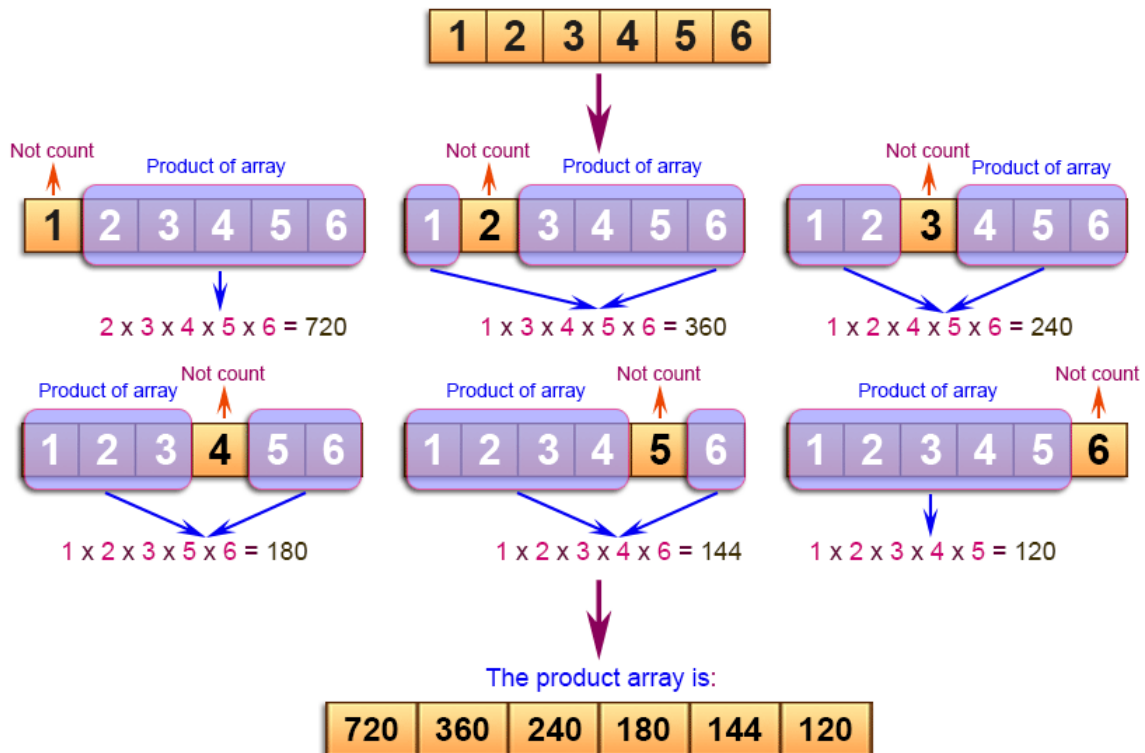


Array Program

Write a C program to find the product of an array such that product is equal to the product of all the elements of arr[] except arr[i].



```
#include <stdio.h>
void main()
{
    int size, i, j, prod;
    printf("Enter the array size: ");
    scanf("%d",&size);
    int array[size],result[size];
    printf("Enter the %d elements : ",size);

    for(i=0; i<size; i++)
    {
        scanf("%d",&array[i]);
    }
}
```

```

for(i=0;i<size; i++)
{
    prod=1;
    for(j=0; j<size; j++)
    {
        if(i!=j)
        {
            prod=prod*array[j];
        }
    }
    result[i]=prod;
}
printf("The given array is: ");
for(i=0; i<size; i++)
{
    printf("%d ",array[i]);
}
printf("\nThe product array is: ");
for(i=0; i<size; i++)
{
    printf("%d ",result[i]);
}
printf("\n");
}

```

Output:

```

Enter the array size: 6
Enter the 6 elements : 1 2 3 4 5 6
The given array is: 1 2 3 4 5 6
The product array is: 720 360 240 180 144 120

```