Find product array such that product[i] is equal to product of all elements except product[i] without using division operator

```
#include <stdio.h>
#include <stdlib.h>

void productArrayWithoutDivision(int *arr, int size)
{

   int temp = 1, *product, index;

   //allocate memory
   product = (int *)malloc(sizeof(int) * size);
   for(index = 0; index < size; index++)
   {
      product[index] = temp;
      temp *= arr[index];
   }
   temp = 1;
   for(index = size - 1; index >= 0; index--)
   {
      product[index] *= temp;
      temp *= arr[index];
   }
   for(index = 0; index < size; index++)
      printf("%d\t", product[index]);
}

int main()
{
        int *arr, size;
        printf("Enter size of the array\n");
        scanf("%d", &size);

        arr = (int *)malloc(sizeof(int) * size);
        printf("Enter elements in array\n");
        for(int index = 0; index < size; index++)
                scanf("%d", &arr[index]);

        productArrayWithoutDivision(arr, size);
        return 0;
}
```

Time complexity: O(n)
Space complexity: O(n)