Question 1

```
#include <stdio.h>

int main()
{
   int size;
   printf("How many numbers do you want to insert \n");
   scanf("%d",&size);

   int array[size];
   printf(" Enter the numbers: \n");
   for(int i=0; i<size; i++) {
   scanf("%d", &array[i]);
   }

   int count=0;
   for(int i=0;i<size;i++)
   {
      while(array[i]%10==0)
      {
         count++;
         array[i]/=10;
      }
   }

   //for(int i=0;i<4;i++)
   //printf(" %d ",array[i]);
```

```
    int final=1;
    for(int i=0;i<size;i++)
        final*=array[i];


    printf("Final: %d",final);
    printf("%0*d ", count, 0);

    return 0;
}
```

Question 2

```
#include <stdio.h>

int top=-1, size=5, stack[5], maxStack[5],maxTop=-1;

void push(int x)
{
    if(top == size-1 )
    {
        printf("Overflow");
        return;
    }

    stack[++top] = x;
```

```
    if(maxTop==-1)
    {
            maxStack[++maxTop]=x;
            return;
    }

    if(stack[top]<=maxStack[maxTop] )
           maxStack[++maxTop]=stack[top];
     else
           maxStack[top]=maxStack[maxTop++];

}

int pop()
{
    if(maxTop == -1)
    {
       printf("Underflow");
       return -1;
    }
    int x = stack[top];
    top--;
    return x;
}

void display()
{
```

```
if(top == -1 || maxTop==-1)
{
printf("No element to display");
return;
}

for (int i = top; i>=0 ; i--)
{
printf("--------\n");
printf("| %d |",stack[i]);
}

printf("--------\n");


for (int j = top; j>=0 ; j--)
{
printf("--------\n");
printf("| %d |",maxStack[j]);
}
printf("--------\n");

}

int main()
{
```

```
    push(18);
    push(22);
    push(14);
    push(16);
    push(15);

    display();

    return 0;
}
```