

# solution

01-02-2018

MECE101 Resit Exam

Name:

Surname:

Number:

**Q1)** The MATLAB function code given below is a sorting (in Turkish sıralama) algorithm

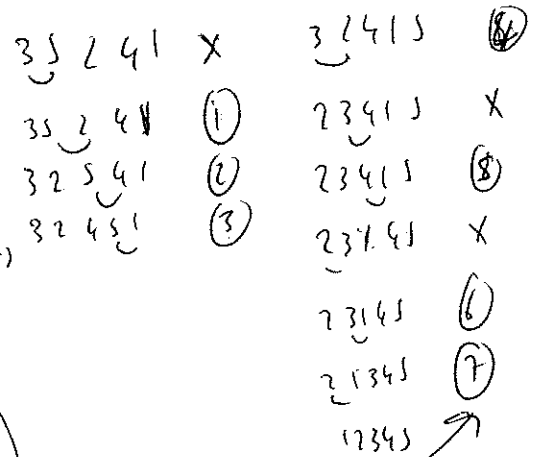
```
function [vector_output, counter] = optimum_siralama_sinav(vector)
counter=0;
length_vector=length(vector);
for j=1:length_vector-1
for i=1:length_vector-j,
    if vector(i)>vector(i+1),
        degisen_vector=vector(i);
        vector(i)=vector(i+1);
        vector(i+1)=degisen_vector;
        counter=counter+1;
    else
    end
end
end
vector_output=vector
```

vector\_output = [ 1 2 3 4 5 ]  
counter

This function is called in MATLAB where vector=[3 5 2 4 1]

```
[vector_output, counter] = optimum_siralama_sinav(vector)
```

Find 'vector\_output' and 'counter' (50 points)



counter = 7

**Q2)** The MATLAB function code is given below:

```
function output2=function_exam_q2(a,b,n)
for i=1:n,
    output2(i)=a-b;
    a=b;
    b=output2(i);
end
end
```

This function is called in MATLAB as

```
output2=function_exam_q2(5, 2, 5)
```

Find the value of 'output2' (50 points)

at start: n=5 a=5 b=2

