report1B.pdf

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MICRO. Assignment 1, Task2.

Register values (my ID card starts with digits 54):

`DS = 0354h, ES = 0300h, BX = 0210h, DI = 1011h.`

Determine the memory address by following the instructions:

a)

```
MOV AL,DS:[0211h]
```

Memory address = `03540h + 0211h = 03751h`. After this instruction, `AL` contains the content of address `03751h`.

b)

```
MOV AX,[BX]
```

Memory address (predetermined stack register is `DS`) = `03540h + 0210h = 03750h`. After this instruction, `AX` contains the content of address `03750h`.

c)

```
MOV [DI],AL
```

Memory address (predetermined stack register is `DS`) = `03540h + 1011h = 04551h`. After this instruction, memory address `04551h` contains the byte from `AL`.

Complete the code so you can access the same values in the same positions, as in the corresponding previous instructions:

a1)

```
MOV AL,ES:[0751h]
```

Expected address = `03751h = 03000h + 0751h`.

b1)

```
MOV SI, 0750h
MOV AX,ES:[SI]
```

Expected address = `03750h = 03000h + 0750h`.

c1)

```
MOV ES:[1551h],AL
```

Expected address = `04551h = 03000h + 1551h`.