



The Academic College of Tel-Aviv-Yaffo
121113 Computer Structure and the 8086 Assembly Language
Spring 2002

Home Assignment No. 3

Due date: June 19, 2002

1. You are given the following macros:

```
Mac1 MACRO
  REPT 8
    ex=ex+1
    tp=tp*2
    Mac2 %ex,%tp
  ENDM
ENDM
```

```
Mac2 MACRO lc,val
  Tow&lc dd val
ENDM
```

How will the macros be expanded, if you use the following code?

```
tp=1
ex=0
Mac1
```

2. Write a macro named “list” that is expanded to the following code when called using the command `list space,10` :

```
space    dw 1
         dw offset space+4
         dw 2
         dw offset space+8
         dw 3
```

```
         dw 9
         dw offset space+36
         dw 10
         dw -1
```

3. You are given an array with n characters. Write a program that finds the string “popl” in the array and replaces it with “rtyt”. Use string commands.

Have fun,

Eliav.