



ΘΕΜΑ Α

A1. α) ΣΩΣΤΟ (σελ. 31)

β) ΣΩΣΤΟ (σελ. 53)

γ) ΛΑΘΟΣ (σελ. 41)

δ) ΣΩΣΤΟ (σελ. 134)

ε) ΛΑΘΟΣ (σελ. 193)

A2. α) `__init__(self, marka, model)`

β)

```
class Kinito:
    def __init__(self, marka, model, cpu_cores,
cam_resolution):
        self.marka = marka
        self.model = model
        self.cpu_cores = cpu_cores
        self.cam_resolution = cam_resolution
    def fortizi(self):
        print "το κινητό φορτίζει"
```

γ) `phone1 = Kinito("orange", "S3", 4, 10)`

ΘΕΜΑ Β

B1. 15 2

15 6

10 2

10 6

B2.

α) 13, 89, 96, 99

0 1 2 3 4 5 6 7 8 9 10 11 12 13

1	1	2	3	5	8	13	21	34	55	89	94	96	99
---	---	---	---	---	---	----	----	----	----	----	----	----	----

↑

↑

↑

L

M

R

100>13

0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	1	2	3	5	8	13	21	34	55	89	94	96	99
							↑			↑			↑
							L			M			R

100>89

0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	1	2	3	5	8	13	21	34	55	89	94	96	99
											↑	↑	↑
											L	M	R

100>96

0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	1	2	3	5	8	13	21	34	55	89	94	96	99
													↑
													L,M,R

100>99

β) 13, 2, 1

0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	1	2	3	5	8	13	21	34	55	89	94	96	99
↑						↑							↑
L						M							R

1<13

0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	1	2	3	5	8	13	21	34	55	89	94	96	99
↑		↑			↑								
L		M			R								

1<2

0 1 2 3 4 5 6 7 8 9 10 11 12 13

1	1	2	3	5	8	13	21	34	55	89	94	96	99
---	---	---	---	---	---	----	----	----	----	----	----	----	----

↑

↑

↑

L,M R

R

1=1

B3. α) (1) 20, (2) <=, (3) 100, (4) i, (5) 20

β) (1) 1, (2) <=, (3) 5, (4) $i*i$, (5) 1

ΘΕΜΑ Γ

```
GRAM=['Α','Β','Γ','Δ','Ε','Ζ','Η','Θ','Ι','Κ','Λ','Μ','Ν','Ξ',
'Ο','Π','Ρ','Σ','Τ','Υ','Φ','Χ','Ψ','Ω']
```

```
epig1 = raw_input('Δώσε την πρώτη επιγραφή')
```

```
epig2 = raw_input('Δώσε την δεύτερη επιγραφή')
```

```
epig = epig1 + epig2
```

```
SUMA = [0] * 24
```

```
for char in epig:
```

```
    for i in range(24):
```

```
        if char == GRAM[i]:
```

```
            SUMA[i] = SUMA[i] + 1
```

```
p1 = 0
```

```
print 'Θα πρέπει να παραγγείλεις τα παρακάτω γράμματα με τις
```

```
αντίστοιχες ποσότητες'
```

```
for i in range(24):
```

```
    if SUMA[i] > 0:
```

```
        print GRAM[i], SUMA[i]
```

```
    else:
```

```
        p1 = p1 + 1
```

```
print 'Δεν θα παραγγείλεις', p1, 'γράμματα'
```

ΘΕΜΑ Δ

```
fin = open("pth.txt")
```

```
count = 0
```

```
for line in fin:
```

```
    count = count + 1
```

```
fin.close()
```

```
fin = open("pth.txt")
```

```
POL = []
```

```
THER = []
```

```
for i in range(count):
```

```
    x = fin.readline()
```

```
    if i%2 == 0:
```

```
        POL.append(x)
```

```
    else:
```

```
        THER.append(float(x))
```

```
sum = 0.0
```

```
for i in range(len(THER)):
```

```
    sum = sum + THER[i]
```

```
mo = sum / len(THER)
```

```
print 'Ο μέσος όρος θερμοκρασιών είναι', mo
```

```
N = len(THER)
for i in range(1, N, 1):
    for j in range(N-1, i-1, -1):
        if THER[j] > THER[j-1]:
            THER[j], THER[j-1] = THER[j-1], THER[j]
            POL[j], POL[j-1] = POL[j-1], POL[j]
print 'Η μέγιστη θερμοκρασία είναι', THER[0]
print 'Οι πόλεις με τη μέγιστη θερμοκρασία είναι:'
for i in range(N):
    if THER[i] == THER[0]:
        print POL[i]
```



ΟΡΟΣΗΜΟ