

ΘΕΜΑ Α

A1. α-ΣΩΣΤΟ β-ΣΩΣΤΟ γ-ΛΑΘΟΣ δ-ΣΩΣΤΟ ε-ΛΑΘΟΣ

A2. 1-δ 2-α 3-ε 4-στ 5-β

ΘΕΜΑ Β

B1. α) εμφανίζονται στην οθόνη οι τιμές: 1,2,3,4,5,6

β)

```
for x in range(1,7):
    print x
```

(εναλλακτικά)

```
for x in range(6):
    print x+1
```

B2.

```
AR = [2]
for i in range(1,10):
    x = 2 * AR[i-1]
    AR.append(x)
```

B3.

a)

```
pow(2,3) == 5+3
8 == 8
True
```

b)

```
2 == 5 or not(3>2)
False or not True
False or False
False
```

c)

```
13%15 == 3 + 4 * 2
13 == 11
False
```

ΘΕΜΑ Γ

```
def TYPOS_EMB(age):
    if age <= 50:
        typos = 1
    elif age <= 60:
        typos = 2
    elif age <= 70:
        typos = 3
    else:
        typos = 4

    return typos
```

```

max = -1
plOLWN = 0
plG = 0
age = input("dose tin hlikia")
while (age < 40):
    fylo = raw_input("dose to fylo")
    if fylo != "A" and fylo != "G":
        fylo = raw_input("dose to fylo")
    amka = raw_input("dose ton AMKA")

    t = TYPOS_EMB(age)
    print "o asfalismenos me AMKA", amka,"exei typo envoliou me arithmo",t

    if age > max:
        max = age
        maxF = fylo
        maxAMKA = amka

    plOLWN = plOLWN + 1

    if fylo == "G":
        plG = plG + 1

    age = input("dose tin hlikia")

pososto = plG/plOLWN*100
print pososto
print maxF,maxAMKA

```

ΘΕΜΑ Δ

```

OMADES = []
BATHMOI = []
for I in range(100):
    omada = raw_input("dose to onoma tis omadas")
    OMADES.append(onoma)
    vathm = input("dose tin vathmologia tis omadas")
    BATMHOI.append(vathm)

```

```

PROK = []
BATHPROK = []
for I in range(100):
    if BATHMOI[i] > 150:
        PROK.append(OMADES[i])
        BATHPROK.append(BATHMOI[i])

```

```

N=len(PROK)
for i in range(N-1):
    for j in range(N-1,i,-1):
        if BATHPROK[j] > BATHPROK[j-1]:
            PROK[j],PROK[j-1] = PROK[j-1],PROK[j]
            BATHPROK[j],BATHPROK[j-1] = BATHPROK[j-1],BATHPROK[j]

```

```
elif BATHPROK[j] == BATHPROK[j-1]:  
    if PROK[j] < PROK[j-1]:  
        PROK[j],PROK[j-1] = PROK[j-1],PROK[j]
```

```
count = 0
```

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

```
    if BATHPROK[i] == BATHPROK[0]:
```

```
        count = count + 1
```