

# Μάθημα / Τάξη

ΠΡΟΓΡΑΜΜΑΤΙΣΜΟΣ ΥΠΟΛΟΓΙΣΤΩΝ ΕΠΑΛ

Ημερομηνία

11/2/2024

Επιμέλεια Διαγωνίσματος

ΑΚΑΔΗΜΑΪΚΟ ΤΜΗΜΑ

## ΑΠΑΝΤΗΣΕΙΣ

### ΘΕΜΑ Α

A1. 1.Λ, 2.Σ, 3.Λ, 4.Λ, 5Λ

(10 μονάδες)

A2. 1.στ, 2.ε, 3.γ, 4.β, 5.δ

(15 μονάδες)

### ΘΕΜΑ Β

B1.

α)Θα εμφανίσει:

3

7

11

hello

42 11

β)

s=0

i=3

while i<15:

  print i

  s+=2\*i

  if i%2==1 and i/2>=4:

    print 'hello'

  i+=4

print s,i-4

(10 μονάδες)



**B2.**

θα εμφανίσει

[2, 8, 6]

[2, 8]

(15 μονάδες)

**ΘΕΜΑ Γ**

```
def fun(x):
```

```
    if x<=5:
```

```
        xr=x*50
```

```
    elif x<=10:
```

```
        xr=5*50+(x-5)*43
```

```
    elif x<=20:
```

```
        xr=5*50+5*43+(x-10)*40
```

```
    else:
```

```
        xr=5*50+5*43+10*40+(x-20)*35
```

```
    return xr
```

```
seis=0
```

```
pl=0
```

```
max=-1
```

```
on=raw_input('dwste onoma pelati ')
```

```
while on!='TELOS':
```

```
    tem=int(input('Posa temaxia agorasate;'))
```

```
    while tem<0:
```

```
        tem=int(input('Posa temaxia agorasate;'))
```

```
    xr=fun(tem)
```

```
    pl+=1
```

```
    print xr
```

```
    seis+=xr
```

```
    if xr>max:
```

```
        max=xr
```

```
        onpel=on
```

```
    on=raw_input('dwste onoma pelati ')
```

```
if pl==0:
```

```
    print 'den eixe kanenan pelati'
```

```
else:  
    print onpel  
    dwrea=seis*0.25  
    print dwrea
```

### ΘΕΜΑ Δ

```
EIDOS=[]  
PELATES=[]  
for i in range(16):  
    eidos=raw_input('dwste to eidos ')  
    plith=int(input('dwste plithos '))  
    EIDOS.append(eidos)  
    PELATES.append(plith)  
for i in range(15):  
    for j in range(15,i,-1):  
        if EIDOS[j-1]<EIDOS[j]:  
            EIDOS[j-1],EIDOS[j]=EIDOS[j],EIDOS[j-1]  
            PELATES[j-1],PELATES[j]=PELATES[j],PELATES[j-1]  
print EIDOS  
on=raw_input('Poion psaxnete;')  
first=0  
last=15  
pos=-1  
while first<=last:  
    mid=(first+last)/2.0  
    if EIDOS[mid]==on:  
        pos=i  
    elif on<EIDOS[mid]:  
        last=mid-1  
    else:  
        first=mid+1  
sum=0  
max=-1  
for i in PELATES:  
    sum+=i  
    if i>max:  
        max=i  
perc=float(PELATES[pos])/sum*100  
print perc  
mo=sum/16.0  
print mo  
for i in range(16):  
    if PELATES[i]==max:  
        print EIDOS[i]
```