Devoir Surveillé 3 – NOM :	Informatique
- Enveloppe convexe	Doc. Réponse

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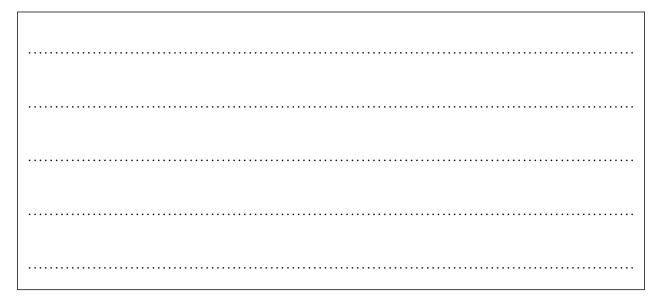
Question 1			
Question 2			
Type de tri:			
mystere1:			
mystere2:			
mystere3:			
mystere4:			
mystere5:			



Question 3

```
def mystere1(tab,i,j):
   g =i+1
   d=j
   p=tab[i]
   while g<=d :
       while d>=0 and tab[d]>p:
           d=d-1
       while g<=j and tab[g]<=p:
           g=g+1
       if g<d:
           tab[g],tab[d]=tab[d],tab[g]
           d=d-1
           g=g+1
   tab[i],tab[d]=tab[d],tab[i]
   return k
def mystere2(tab,i,j):
   if i < j:
       k = mystere3(tab,i,j)
       mystere4(tab,i,k-1)
       mystere5(tab,k+1,j)
```

Question 4





Q	estion 5	
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Q	estion 6	
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Question 7

Question 8

```
def enveloppe_convexe(tab):
    es = creer_pile()
    ei = creer_pile()
    for i in range (len(tab)):
        enveloppe_Inf(tab,ei,i)
        enveloppe_Sup(tab,es,i)
    pop(es)
    while (not(est_vide(es))):
        push(ei,pop(es))
    pop(ei)
    return (ei)
```