Tri fusion

```
In [ ]:
              def partage(liste):
                                                                                                 Q
                  11=[]
                  12=[]
                  for k in range(len(liste)//2):
                       11.append(liste[k])
                  for k in range(len(liste)//2,len(liste)):
                       12.append(liste[k])
                  return 11,12
    In [ ]:
              liste=[38,27,43,3,9,82,10]
              11,12=partage(liste)
              def fusion(11,12):
    In [ ]:
                  ind1=0
                  ind2=0
                  1 = []
                  while ind1<len(l1) and ind2<len(l2):</pre>
                       if l1[ind1]<l2[ind2]:</pre>
                           1.append(l1[ind1])
                           ind1+=1
                       else:
                           1.append(12[ind2])
                           ind2+=1
                  if ind1==len(l1):
                       for k in range(ind2,len(12)):
                           1.append(12[k])
                  else:
                       for k in range(ind1,len(l1)):
                           1.append(11[k])
                  return 1
    In [ ]:
               print(fusion(l1, l2))
                                                                                                 Q
    In [ ]:
               def tri_fusion(liste):
                                                                                                 Q
                   long = len(liste)
                   if long <= 1:
                       return liste
                   else:
                       11, 12 = partage(liste)
                       11 = tri_fusion(11)
                       12 = tri_fusion(12)
                   return fusion(11,12)
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In []: print(tri_fusion(liste))

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