Test pile

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In [ ]:
         def creer_pile_vide():
                                                                                        Q
             return []
In [ ]:
         def est_vide(p):
                                                                                        Q
             return p==[]
In [ ]:
         def empiler(p,element):
             p.append(element)
In [ ]:
         def depiler(p):
                                                                                        Q
             return p.pop()
In [ ]:
         def sommet(p):
                                                                                        Q
             return p[-1]
In [ ]:
         def taille(p):
             return len(p)
In [ ]:
         def reduire_triplet_au_sommet(p):
             a = depiler(p)
             b = depiler(p)
             c = sommet(p)
             if a % 2 != c%2 :
                 empiler(p, b)
             empiler(p, a)
In [ ]:
         def parcourir_pile_en_reduisant(p):
                                                                                        Q
             q = creer_pile_vide()
             np = p.copy()
             while taille(np) >= 3:
                  reduire_triplet_au_sommet(np)
                 e = depiler(np)
                 empiler(q, e)
             while not est_vide(q):
                 e = depiler(q)
                 empiler(np,e)
             return np
In [ ]:
         def jouer(p):
                                                                                        Q
             q = parcourir_pile_en_reduisant(p)
             if taille(q)==taille(p) :
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return p
else:
    return jouer(q)

In []: tp = [2,4,7,8,9,4]
    tp1 = parcourir_pile_en_reduisant(tp)
    print(tp1)
    tp2 = parcourir_pile_en_reduisant(tp1)
    print(tp2)
    tp3 = parcourir_pile_en_reduisant(tp2)
    print(tp3)
In []: print(jouer(tp))
```