## **CODES 0-2:**

```
p = [int(x) for x in open('17_file_1.txt')]
p = [int(x) for x in open('17_file_0.txt')]
count = 0; mx = float('-inf')
                                                         c = 0; mx = float('-inf')
                                                         mx19 = max(x for x in p if x%19==0)
for a,b,c in zip(p, p[1:], p[2:]):
                                                         for a,b in zip(p, p[1:]):
  mx_n = max(a,b,c)
                                                           if (int(a\%2)+int(b\%2))==1 and (a>mx19 or b>mx19):
  if mx_n**2 == (a+b+c-mx_n)**2 - 2*a*b*c/mx_n:
    count += 1
                                                             c + = 1
    mx = max(mx, a*b*c*0.5/mx_n)
                                                             mx = max(mx,a+b)
print(count, mx)
                                                         print(c, mx)
#7221130.0
                                                         # 17 199837
```

```
def isPal(x):
  s = str(x); f = True
  for i in range((len(s)+1)//2):
     if s[i] != s[len(s)-i-1]:
        f = False
        break
  return f
p = [int(x) for x in open('17_file_2.txt')]; I = []
count = 0
mx18 = max(x \text{ for } x \text{ in } p \text{ if isPal}(x) \text{ and } x\%18 = = 0)
for a,b,c in zip(p, p[1:], p[2:]):
  if (b-a) == (c-b) and (int(a < mx18) + int(b < mx18) + int(c < mx18)) == 2:
     count += 1
     I += [a+b+c]
l.sort()
if len(1)\%2 = = 0:
  print(count, ( |[len(|)//2] + |[len(|)//2-1] ) / 2)
  print(count, I[len(l)//2])
# 116 18996.0
```