```
(上列各項,考生須逐項填明,違者該科試卷以零分計)
      Please fill out the above information, otherwise the score of this quiz will be zero.
     f(n) = O(nogoa) E>0
     f(n)=6(nogoa.lgkn) k70
        > O(neggoq. lgk+in).
     f(n) = 2 (nogo 9+ 2) 2>0
      符合 af(音) S c f(n) 才能使用
        > O(f(n)).
2,
    (a) T(n) = 4T(n/2) + 11
                                       (b) +(n)=4+(1/2)+n
                                      -> n2 = O(n2,924, lgn) K=0
       -> n = 0 (nog-4-2), E=1
                                             T(n) = Q (n2gn) #
          T(n) = 0 (n2) #
    (c) T(n)= 4T(n/2)+ n3
                                                    7(0)
      -> n3 = sa (nong + 2), E=1
          4(\frac{h}{2})^3 \le c n^3, \frac{n^3}{2} \le c n^3, c = \frac{1}{2}
         T(n) = 0(n3) #
                                                               do
  71
                                                        1-1+1
                                                                     1+ F[T-1]+F[T-2]
                 n=1, n=2
                                (a)
                                            worst-case.
                                Goldenratio
```

任课教師/Instructor Name



