```
Aaron Shields
a) void fil (int n)
                                             K . K = K2
  int 1 = 2
                                              k2. K2 = K4
                      1 · 2 = 0 ( log = n )
                                                 KThi= n
   While (ikn) {
                      1 · 3 = 0 (log ; n)
    1=1+1;
    3
                    k2 = 0(sqr+(n)) A
   3
b) void f2 (int n)
       for (int: 1:1 can; itr)
                                            O(n) - Outdop
         1 ( 17. (int ) sqrt (m)) == 0)
                                            0(10) - hmes
                                           0(123) -
          for (in) k = 0 kd pau(1,3) k++) {
                       13=1
                                           0(n) + 0m + 053
                   time complexity = O(n)
c) for (int 1=1; 14n; 1+1) 0(n) n+n+n+n
      for line k=1; k<=n; k++) o(n)
                                           k+ k+ k-
      if (A[k] == i)
       for ( Int m= ) i m = n; m=mim) ( o ( log cn )
           11 0(1)
                     n2 log n = time complexity in2 log (m)
      >
   int " q = new int Elo]; To(n)
                                            0 (5110)
   int size = 10;
                                     0(1)
    for lat 1 = 6; 12m; pt) 1 0(n)
                                           0(n-1) + 0(M)
     4 16 (1== 512e7
                                            o(n-1)
         Intimusice = 3'size/2
                                             o(n)
         in+ - b # new in [peusice]
         for (int i = 0; j < see 1) tt) b[j] = a[j];
                                          time complexity = o(a)
            OLE = 1 . 1 )
```