(a) while (co)!
$$a^{2k} \ge n$$
 $a^{2k} \ge n$
 $a^{2k} \ge n$

RUNTIME ANALYSIS

```
int "a = new int [10];
int size= 10; for (int i=0; i4n; i+t)
    if (i= = size) -happens once
                                                       depends
       int new size = 3" size /2; int "b= new int [new size];
                                                           O(n)
      for (int j:0; 1< size; j++) b [j] = a [j];
derete [] a;
                                                                          SPC cific
      Q: b;
       size = new size;
```

d) int f(int n)