- Variables

  1. array = {1,2,3,1,5,6,1,8,9,1}
  2. n = 10
  3. key = 1
  4. segment size = 3
     =>**Segments** :

     ```
     {1,2,3}
     {1,5,6}
     {1,8,9}

     {1}
     ```

     Last Segment **INCOMPLETE** b/c
     n % seg_size
     10 % 3 != 0

- Loop while (*i* < *n*)

  1. i = 0
     Segment : {1,2,3}
     PERFORM LINEAR SEARCH for key
     if found : continue
     else : return **false**
  2. i = 3
     Segment : {1,5,6}
     PERFORM LINEAR SEARCH for key
     if found : continue
     else : return **false**
  3. i = 6
     Segment : {1,8,9}
     PERFORM LINEAR SEARCH for key
     if found : continue
     else : return **false**
  4. i = 9
     Segment : {1}
     i + seg_size > n
     9 + 3 = 12 > 10
     break

- Last segment **may** remain unchecked if **i + seg_size > n**
  i = n - seg_size
  i = 9
  Segment : {1}

PERFORM LINEAR SEARCH for key
if found : continue

- if (i == n) => the last seg did not contain key b/c if it did it would **break before i = n**
  return **false**
- else : return **true**