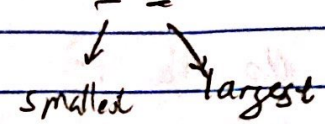
5) Assume (i, j) ← MinMax (A, p, r)



only 1 comparison

a)
```
test ( A, p, r) {
    B[ ].clearall;  // Meaning B[1] – B[2] – B[n] = 0
    k = 1
    while A.length > 1
        (i, j) ← minmax ( A, 1 , A.length)
        B [k] = i
        B [n-k] = j
        k++;
        A[i, j] Delete from Array
    End while.
        if a.length = 1 then
        B[k] = A[n]
        End if
    Return B;
}
```

b) no. comparisons: B is even n/2

B is odd n-1/2

c) $\frac{n\left(\frac{3n}{2}-2\right)}{2} = \frac{3n^2}{4} - n$