1)I. Start to search beginning of the shelf.

Compare each items with "Fitzgerald, F. Scott," book name.

Until if you found it, then take and mark.

If you do not found it yet, check and compare each items sequencely.

II. start to search middle of the shelf.

Firstly, Compare the author's last name in the middle book with "Fitzgerald, F. Scott,".

If you found it, then marked it.

If you do not found it yet, go left or right side according to sequence.

And search and compare each items with "Fitzgerald, F. Scott,".

- 2) I. 8 comparisons
 - II. (3,5,8,12,17,19,23,27,30,45)

3 comparisons

3) I. 6th moth 3+5=8branches

8th mont 8+13=21branches

- 2. They should plan 21 branches
- 3. 10 month_21+34=55 branches

11 month_55+34=89 branches

12 month_89+55=144 branches

4.Average= (8+13+21+34+55+89+144)/6

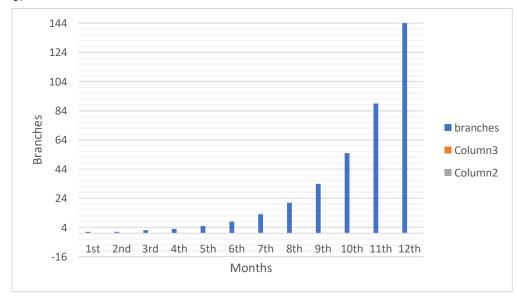
=60.666

- 5. total number of branches=144
- 6. 1:1/2:1 /3:1+1=2 /4;2+1+1=4 /5:4+2+1=7 /6:7+4+2=13

Fibonacci sequence -8 and this sequence-13 branches

7. highest rate is =13-7=6

8.



9. 13: 144+89=233 14; 233+144=377

15: 377+233=610

10.