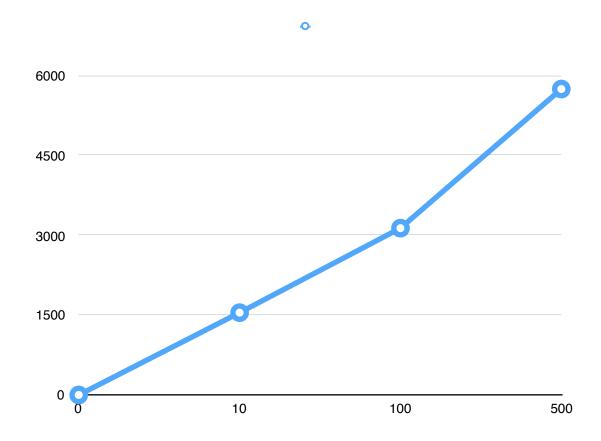
Ex1.

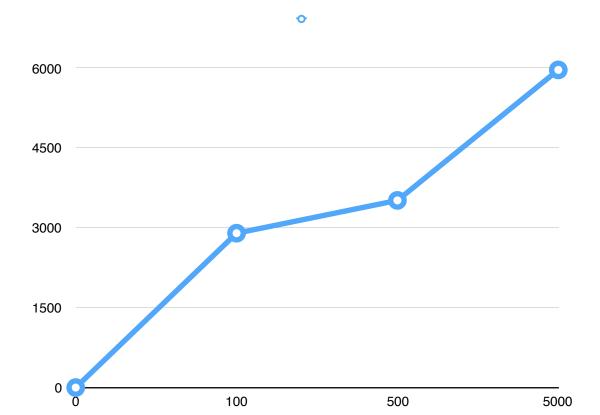
Degree of polynomial(n)	Evaluation Time(millisecs)
10	1546
100	3133
500	5746



Ex2

Size of matrix(n)	Execution time(millisec)
100	2899

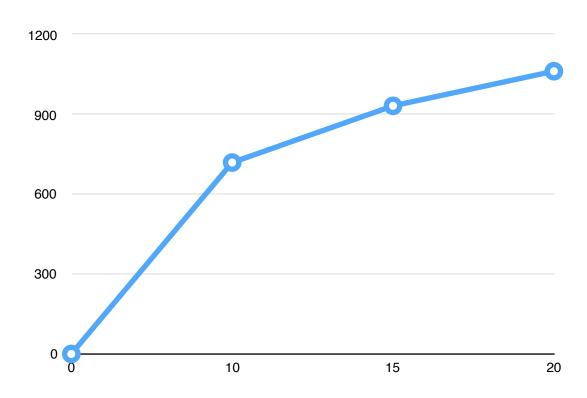
Size of matrix(n)	of matrix(n) Execution time(millisec)	
500	3515	
5000	5966	



Ex3

Value of n		ecution Time to generate 2 power n binary mbers
	10	719
	15	932
	20	1062





Ex4 A

Code:

```
17 {
18
    if(a.charAt(c-i)==b.charAt(0))
19
20
     if(b.length()==1){result+=" "+(c-i);}
21
     for(int n=b.length()-1;n>0;n-)—second loop O(n)
22
23
      int count=1;
24
       if(b.charAt(d-n)!=a.charAt(c-i+count))
25
26
         break;
27
       }
28
       count++;
29
       result+=" "+(c-i);
30
     }
31
    }
32 }
```

So the complexity of the code is O(n*n)=O(n2)

EX4B

Substring	Number of matches found	Time taken(ms)
Т	10792	1576
CC	1552	4822
GCT	0	4861
GG	1565	3575
TCCT	0	5271
CTCTGCTCGCGCT	0	7831
GCTCGCCGT	0	7069

In my case, the longer substring is, the more time it will take to evaluate the data. I tried for so many times but the output remained same like the table above. Maybe it is because of my algorithm is different from other people. In my code, program has to compare two strings one char by one char. So it might take more time to compare a longer string.