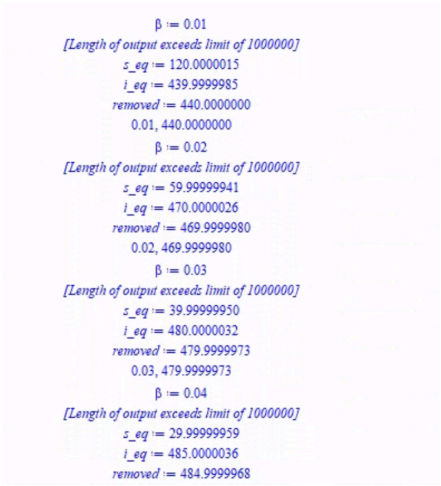
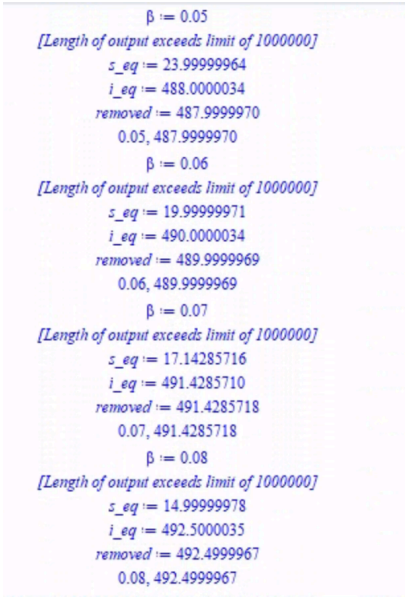
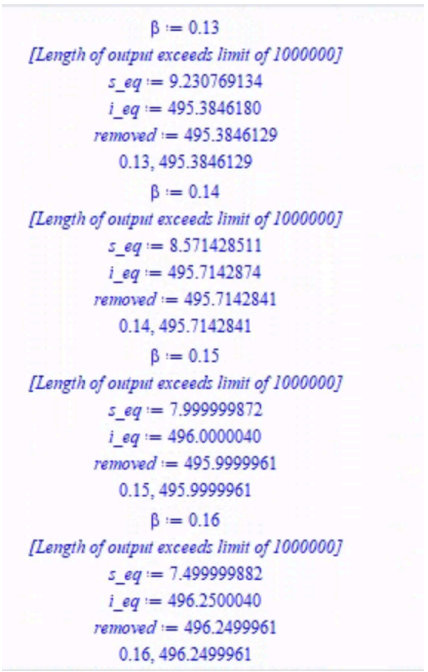
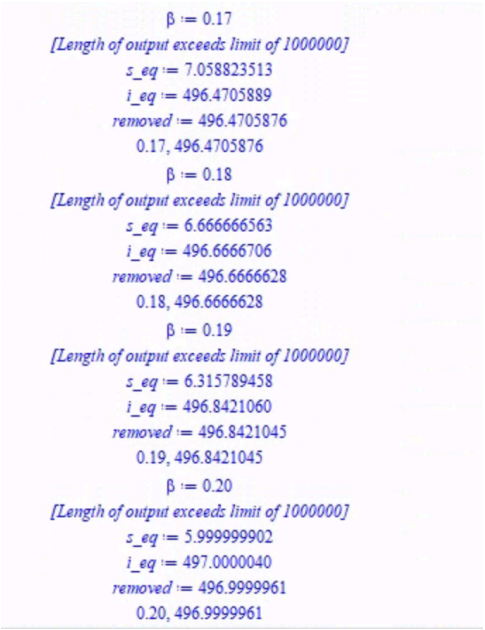
Question 1.









Question 2

Out of the 20 trials I got 20 stable equilibrium

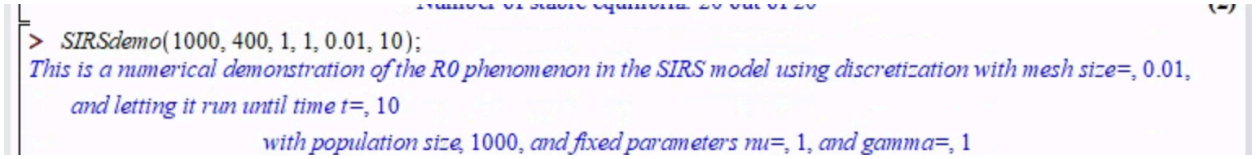
```
count := 0;
for trial from 1 to 20 do
    a1 := rand(1..100)();
    a2 := rand(1..100)();
    result := SEquP(ChemoStat(N,C,a1,a2), [N,C]);

    if nops(result) > 0 then
```

```
        count := count + 1;
    fi;
od;

print(cat("Number of stable equilibria: ", count, " out of 20"));
```

Question 3



Question 4:
The numbers are indeed very close, like within 0.07 for the range around 0.55
With the average being 0.55