**HW1**

Alon spinner

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**Q1:**

a:

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From Bayes role we know:

Given that

MR

Given that

b:

Known from (a)

C.R

Given that

c:

Using (a) and (b) solutions

**Q2:**

Given inverse observation model:

We demote:

a:

From Bayes role we know:

Independent

Using Bayes role

As m has a binary state:

b:

Binary state m

c:

Assuming independence between cells

Using