# Solution Template

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Fill in each answer in the respective box. Intermediate computations can be done on a separate page.

Afbeelding met tekst, binnen

Automatisch gegenereerde beschrijvingChart, text

Description automatically generated

1b.

1a.

P(W\_i =0|R\_i=1)

P(W\_i =1|R\_i=1)

P(W\_i =1|R\_i=0)

P(W\_i =0|R\_i=0)

P(S\_i =0|W\_i=0)

P(S\_i =0|W\_i=1)

P(S\_i =1|W\_i=0)

P(S\_i =1|W\_i=1)

P(W\_i =1|W\_(i-1)=1, R\_i=1 )

P(W\_i =1|W\_(i-1)=1, R\_i=0 )

P(W\_i =1|W\_(i-1)=0, R\_i=1 )

P(W\_i =1|W\_(i-1)=0, R\_i=0 )

P(W\_i =0|W\_(i-1)=1, R\_i=1 )

P(W\_i =0|W\_(i-1)=1, R\_i=0 )

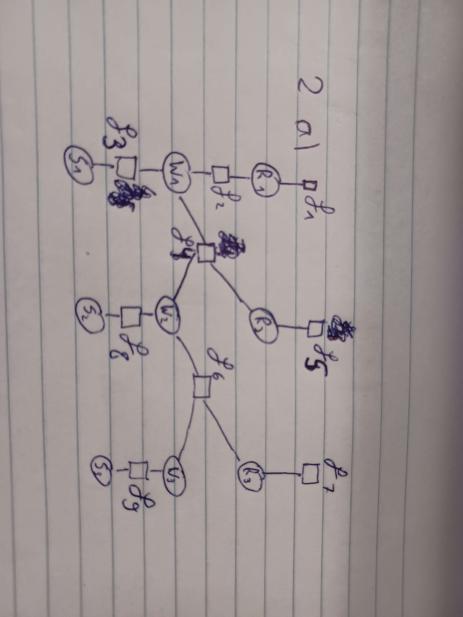
P(W\_i =0|W\_(i-1)=0, R\_i=1 )

P(W\_i =0|W\_(i-1)=0, R\_i=0 )

P(R\_i=1)

P(R\_i=0)

1c. Number of parameters: 18 Definition of parameters:



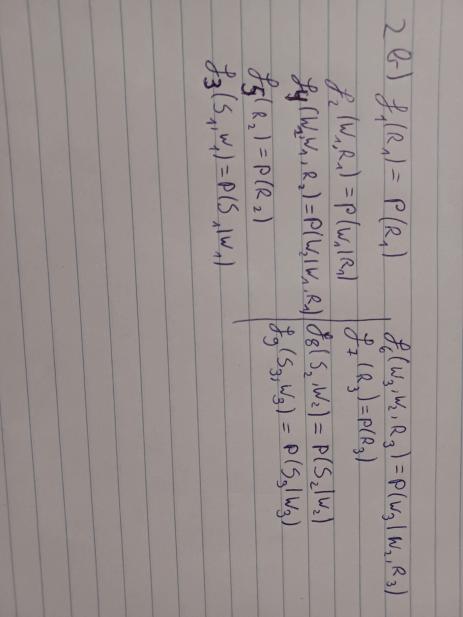
2a.

3d.

3b. Number of messages: 17

Factor graph with message schedule:

3a.W\_3

2b. 

A piece of paper with writing on it

Description automatically generated

3c.34