Algorithm:

1. Patient Arrive
2. Is Patient Registered? If not Register the patient
3. Is Nurse Available? If not Wait for Available Nurse
4. Has a Record Health Condition
5. Is Available Doctor? If Doctor Available Assign the patient. if not Wait For Available Doctor
6. If Patient Assign to Doctor is Patient need a follow up? If yes Arrange Appointment
7. If Patient not need follow up. Is Patient need Medication? If yes give Prescription if No
8. Patient Leave.

Pseudocode:

BEGIN:

Patient arrive

IF

Patient Registered

OUTPUT

Assign to a Available Nurse

IF

Patient Has a Record Health Condition

OUTPUT

Assign to Doctor

IF

Patient need a follow up?

OUTPUT

Arrange Appointment

IF

Don’t need follow up

OUTPUT

Give Prescription

IF

Patient not Register

OUTPUT

Register the patient and wait for available nurse

ELSE

Patient Leave

END