Part a

public int findFreeBlock(int period, int duration)

{

int freeInARow = 0;

for(int minute = 0; minute <= 59; minute++)

{

if(isMinuteFree(period, minute))

freeInARow++;

else

freeInARow = 0;

if(freeInARow == duration)

return minute - freeInARow + 1;

}

return -1;

}

Part b

public boolean makeAppointment(int startPeriod, int endPeriod, int duration)

{

for(int period = startPeriod; period <= endPeriod; period++)

{

int startMinute = findFreeBlock(period, duration);

if(startMinute != -1)

{

reserveBlock(period, startMinute, duration);

return true;

}

}

return false;

}