FUNCTION suggest\_matches(current\_user, target\_course\_code):

// Initialize an empty list for potential matches

matches = []

// Get all users from the system

all\_users = GET\_ALL\_USERS()

// Get the availability of the current user

current\_user\_availability = current\_user.get\_availability()

// Iterate through every user in the system

FOR user IN all\_users:

// Skip if it's the current user

IF user.username == current\_user.username:

CONTINUE

// Check if the user is enrolled in the target course

is\_enrolled = FALSE

FOR course IN user.courses:

IF course.code == target\_course\_code:

is\_enrolled = TRUE

BREAK

// If enrolled, check for overlapping availability

IF is\_enrolled:

other\_user\_availability = user.get\_availability()

FOR my\_slot IN current\_user\_availability:

FOR other\_slot IN other\_user\_availability:

IF my\_slot.day == other\_slot.day AND my\_slot.time == other\_slot.time:

// If an overlap is found, add user to matches and stop checking this user

ADD user TO matches

BREAK // out of inner loop

IF user IN matches:

BREAK // out of outer loop

// Return the list of matched users

RETURN matches

END FUNCTION