

Sections of each loop:

max time for finding current_customer = (numberOfCustomers – 1)(numberOfCustomers)
(it loops in order from index 0 to numberOfCustomers so the maximum length is that it has to traverse to whole thing, i.e. the safe path for n customers is n, n-1, n-2 ..., 1, 0.)

Updating the work array when it is a successful loop
= (numberOfCustomers)(numberOfResources)

once the safe path is complete (finish array is all true) loop numberOfCustomers times to check through.

Therefore time complexity is

$O((\text{numberOfCustomers} - 1)(\text{numberOfCustomers})$
 $+ (\text{numberOfCustomers})(\text{numberOfResources}))$

therefore it depends on the number of customers vs resources.