Please also take a look at the below and aim to complete this prior to Tuesday's interview?

Using C# can you design an application to control the movements of the next rover to go up to Mars. You have been told that the surface area on mars is 100m x 100m where they have numbered the areas 1 through to 100 (please see diagram 1). The rover starts facing south and can turn in the directions of left and right moving in metres taking a maximum of 5 commands at any time. The rover starts in number 1 and after each set of commands reports back its current position and direction it is facing.

e.g.		string ()	max Leaght
1. 50m			\$
2. Left	(validate input) autput	strug or	good reft director
3. 23m	(0-9+m		Lat, Lang, Bearen
4. Left	Left, Right		dernes
5. 4m	assumed non negative destar	nces-	

The above set of commands would cause the rover to report back position 4624 north.

The next set of commands would then continue from this square. Please note that the rover cannot go out of this area so will halt all commands when it has reached its perimeter.

Diagram 1....

O 0 1 2 3 99 100

101 102 103 199 200

201 202 203 299 300

Write unit test to prove your results.

for each command. remember gridget or direction validate command. OR validate all commands prior to execution.

for each single movement in command.

if check is still in Bounds'

move ->

elge

halt = true by each loops / or petern position.

Tests obteficounds - south sermeter. 201, = 10048 C= coot N - north parimeter LiL, 1 =0100 E - East parmeta. L,101 - west parmetre invaled commands - too many commands direction change that was and = Sauce loctain 1 Different Boing LRLRL L. L. L. L. L. not recoesary because variable commands 1+05 0,0,0,0,1 distance dummands £ 101 S = 101 S 0,0,0,1,0 move in ach 2 = 3.01 S = 3E = 601N L, 2 L, 10, L, L, 5 10, R,R,5 = 1501 \$ 1,2,3,4,5 direction or distance = 2 E L, b, 0,0,0 multiple command sets 21, 13 {R,2} = 202 S