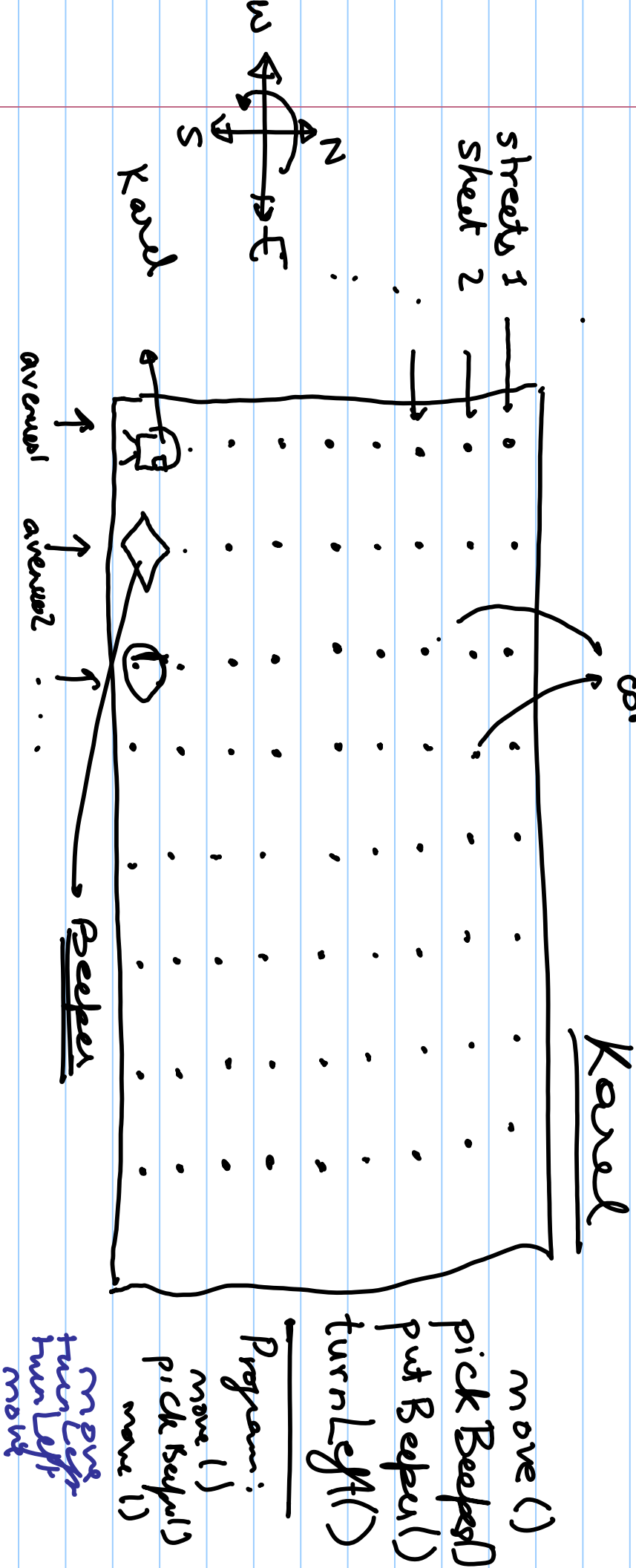


COL 100

Programming with

Karel



move()
pick Beepers()
put Beepers()
turnLeft()

Program:

move 1)
pick Beepers()
move 1)

move
turnLeft
turnLeft
move

function/procedure:

define turnRight()

{

turnAround()

turnLeft()

}

call this function

~~define~~ define turnAround

turnLeft.()

turnLeft()

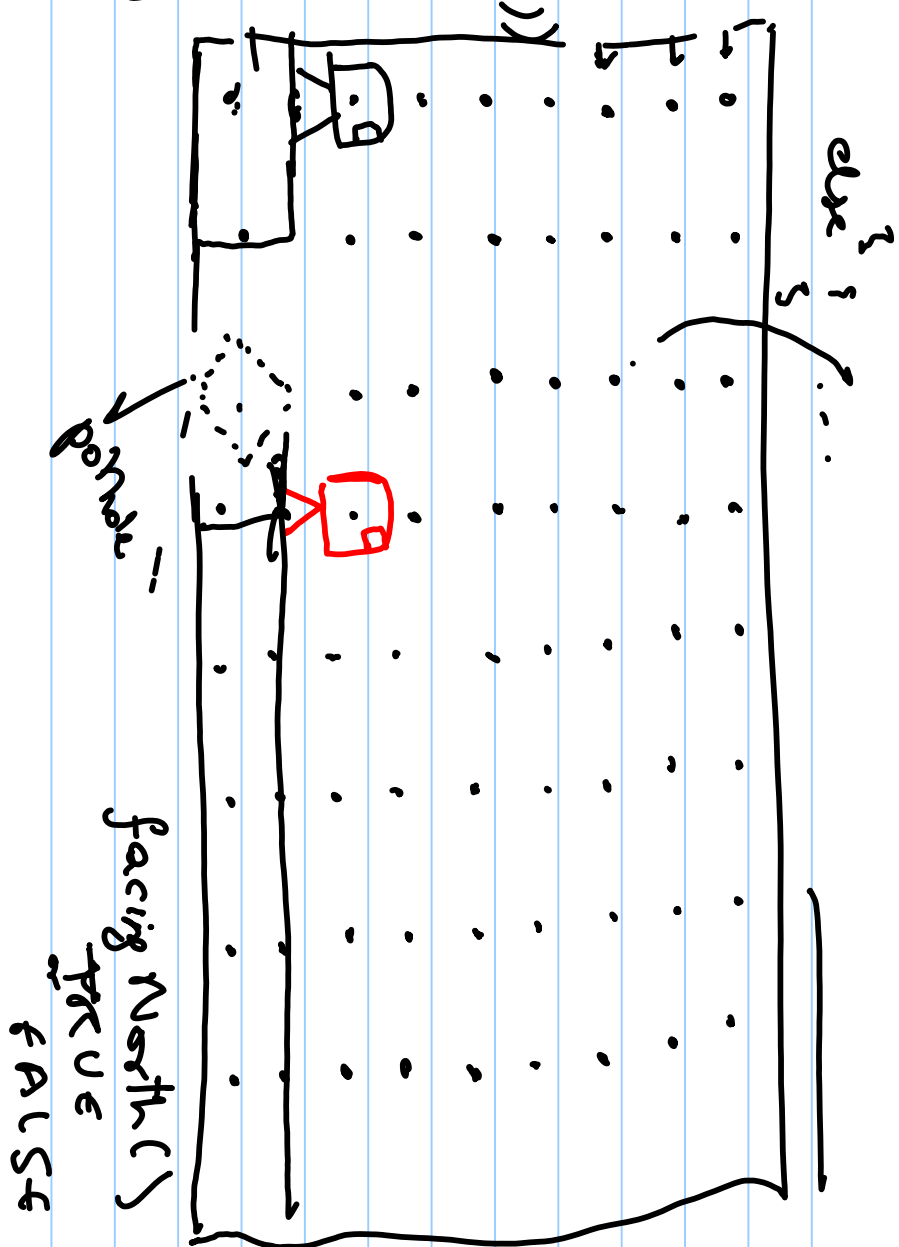
}

do while firstSet Pthole if { (condition)

```

{
  move()
  move()
  turn Right()
  move
  if (noBeepersPresent())
  {
    put Beeper()
  }
  turn Around()
  move()
  turn Right()
  move()
}

```



Conditions

noBeepers
Present()
TRUE
or
FALSE
frontIs
Clear()
TRUE
or
FALSE

facing South
East

used

no Beepers Beep (1)

facing East (1)

Variable

degine

turn left (1);

ret ~~the~~ facing North (1)

turnRight (1)

return ret 1

3

name (1) " ABCD - ... 77
print "happy birthday"
println "happy birthday" name

assignment

if (<condition>)

...

} else {

...

}

if

(<condition>)

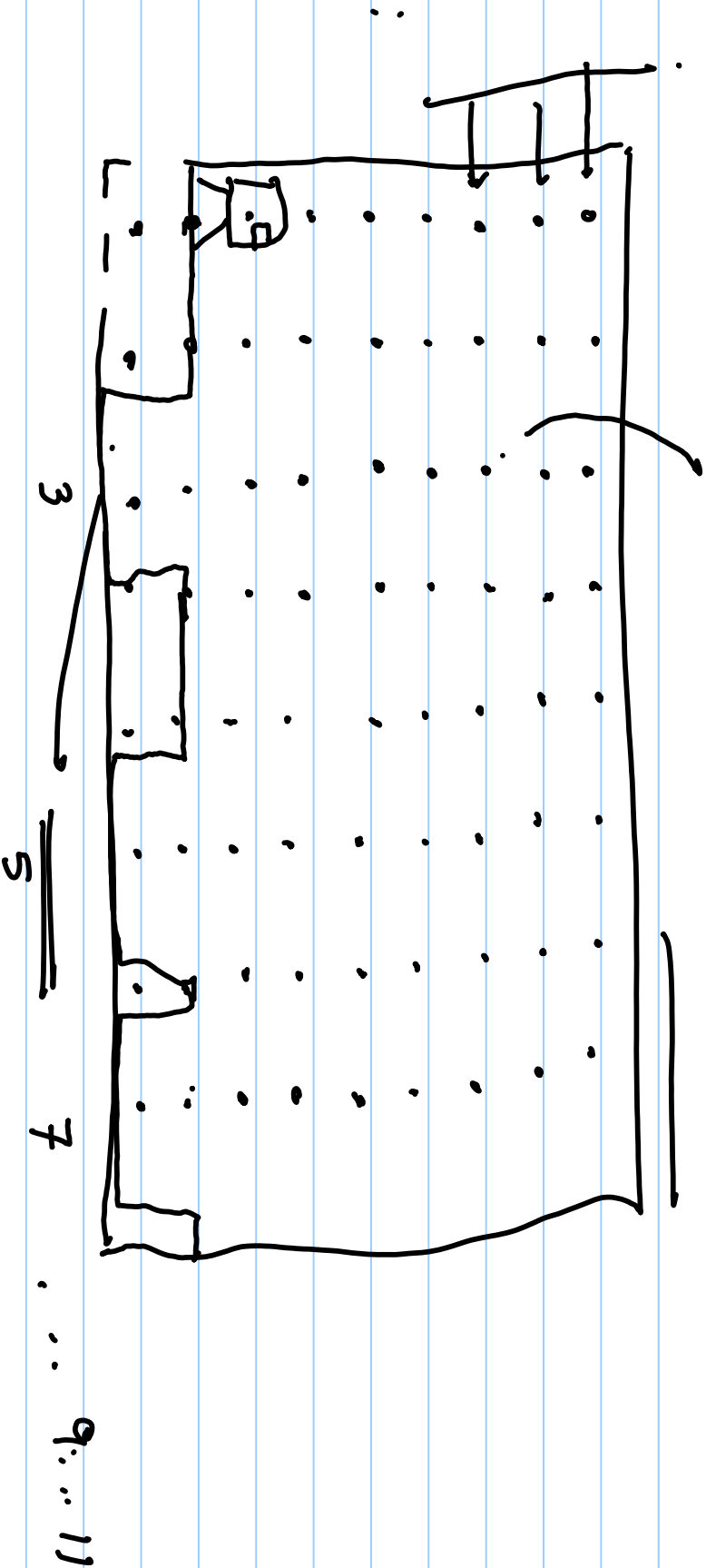
if (

}

(). <

now

```
define noBeepersPresent()  
{  
    if (beepersPresent())  
    {  
        return FALSE;  
    }  
    return TRUE;  
}
```



if (condition)

S1;
S2;

{ else {

S3;
S4;

}

S5;

S6;

condition is true
then:

S1
S2
S5
S6

if condition is false -

S3

S4


S5

S6

for (i = 0 ; i < count ; i++)

S1
S2
S3
..

}
for (count)

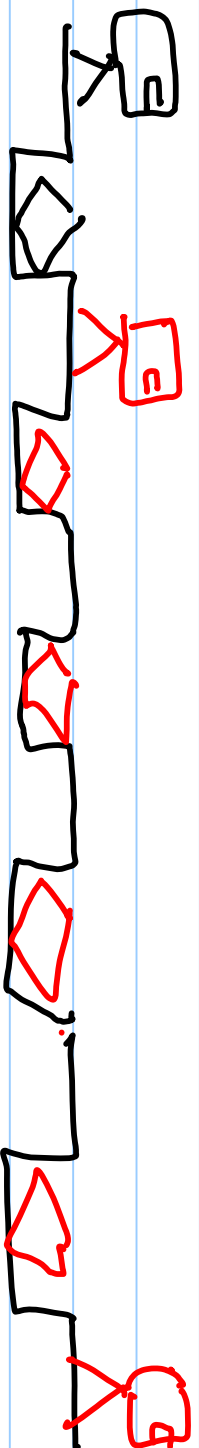


Repetition

for $i = 0$; $i < 5$; $i++$

fill Next Pothole () ;

}



for (i = 0; i < MaxLength of Street; i++)

 { if (front is Clear())

 }

 move();

 }

while (condition)

 {

 ... s1

 s2

 ;

 }

do { moveTillClear(); }

while (frontIsClear())

{

move();

}

}

