```
HW3.1&2
  Friday, March 3, 2023
         2:00 AM
 red= robot
 freen = gon
 Should = obstrales
 Best First Search
 Monthattan D'istance
- Report Fringe (include F(N) values) in order
    of being alded to Errye
- Report order of rodes bery expuded
-Report Final Porth
                            A X = f(N) = g(N) + h(N)
 BES= f(N)=h(N)
                              g(N) = (75) from init, to N
    h(N) = cost of prth from w to goal Noole
                6,5
  1,3 X 4,3 5,3 6,3 7,3 8,3 9.3
      9.3 X X X X X 1,2
      31 311 41 51 61 71 811
               5 6 7
                                N(N)
           Ч
                         D2=(17-21+16-21)+12-21)=7
12=17-21+14-21=7
                         D[-4(17-1)+(14-1)+(12-1)=9
 01=17-11+14-21=8
                         Ed=(17-2)+[4-1])+(12-2)+12-11)=9
 Ed= 1721 + 14-11=8
 E1-17-11 + 14-11=9
                         El= 9 + 12-11 = 11
cl = 17-11+14-31=7
                        C(= 7 + 12-11+12-31=9
B1 > 17-11+14-41=6
                        B = 6 + 12-11+12-41=9
A1=17-11+14-51=7
                        A1= 74 12-114 12-51=11
                        E3= (17-3/+ 14-11)+ (12-3/+ 12-11)=9
AZ=17-21+14-51=6
A3=17-31+14-5]=5
AU=[7-4]+14-5]=4
                       E4=17.41+14-11+12-4/+12-11=9
A5=17-51+14-51=3
                       E5=[7-5|+14-1|+12-5|+12-1]=9
BY=17-41+14-41=3
A6=17-61+14-51=2
                       E6=17-6/4[4-1/4 [2-6/4 [2-1]=9
A7=17-71+14-51=1
A8=17-8]+14-51=2
                       E7=17-71+14-12-71+12-71=9
87=17-71414-41=0
                        E8= 17-8 | + 14-11 + 12-8 | + 12-11=11
                        AZ= 6 + 12-21+ 12-51= 9
                        A3=5+ 12-31+12-51=9
                        A4=4|12-4|+12-5|=9
                        A5= 3 + 12-51=9
                        By = 3+ 12-41+12-41=7
                       C4= 17-4/4/4-3/+12-4/4/2-3/=7
                       C5=17-51+14-31+12-51+12-31=7
                       C6=17-61+14-71+12-31=7
                       C7= |7-7|+ 14-3|+ 12-7(+|2-3|=7
                      C8=17-8/4/4-3/4)2-8/4/2-3/=9
                      B7=17-7/+14-4/+12-7/+12-4/=7
```