Nichrish Labhinona 18M18CLOSG

```
If Let h ( Stok, torget)
     dist - 0
    for it in state:
          di, de z state indu (i), torget indu (i)
          V, of = 91.93 19113
          Mz, yz = dz 1/03, dz/13
          dist += abs (x1-N2) + abs (y1-y2)
     return dist
Let askov (sva, Lorget):
     stalu = Tsvc]
     9=0
     visite & - statu = set ()
     while linistates):
          print (f" lovel; (gy")
           MOVES = []
          for state in state :
              visited-statu. add (Luple (state))
               privil-grid (state)
               if 9 = 1 = farget:
                        print ("success")
                    mores += [more for more in possible-mores (strotus)
                    usited-stole) it more not in moves)
                    else
                         price [" NOSOLUTION")
                         rotorubzenta break
```

```
Sosts = (g+h (more, borger) bor more in moves ] # ol(n) = g(n)+h(n)
        states = (mover (i7 for i in ronge (lan (moves)), it costs?i]
     g += 1 == Min (costs)]
    print ( This "NO SOLUTION")
def possible imores (state, visited-state):
    b = state inden (-1)
    d = U
      if 926-3 >= 0;
         d += 'U'
      if 9>b+3>=0:
          d+= 'd'
      f b not in [2, 17, 87:
          d+= 'V'
      of b not in [0,3,6]:
           d+2 1
      DOS-MOVES= []
      for more in d:
             pos - mover, en append (gen (state, move, b))
       roturn [more for more in pos_mover if tuple (more) not in
            visited_ states)
```