impost numpy as no form p for puzzleNod impost * impost copy impost time for que import Priority Que for steetools import count del iterate Deepening Search (Stut Noch)! maxleyer = 1 while True: dfs List = [] layer = 0 dbs List-append ((Start Noch , layer)) while len (dplist)!=0; top = offs List. pop () toplo] temp Layer = top[1] ib tempo de is Goal (): toace = [] pto = tmpNode while ptr 15 not None: back-append (pto. nod) Pto = pto parent

Shive Proneeth . Ko Sali 18m18cs100 Al-Labl Shirakoddi. setim toplayer, toace

```
Shiva
                                          18m 18c3160
rext Layer = Implayer + 1
  ib rext Layu > max Layu;
     con knue
   Validmomi =
   toppode. get validme un ()
          for more char in valid Models:
               next Noch = copy . Lupcopy (tmpMods)
                nextrod. de move (move chan)
                ib not in DIS NochList ( ment Noch, des List):
    Abs List. append (Crext Nod, rextlager))
        rext Node. parent = temp Node; mar Layer + = 1
  iterative DeepeningSearch ())
    defin DFSNodelist (INOd , nlist):
            for node in alist:
      ib (not co). note = + Note note) di
                 Sctom Tous
                oction False
```

test = Ruzzle Noch C)

test . shuffle ()

test - show ()

step, trace = iterative Deepening Seach (166t)

Print (step)
while len (brace)!=0

n = brace pop()

print (h)

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