

ASSIGNMENT 2 - REPORT

Option a) Showing Depth First Search (DFS) and Best First Search on this data

1. For Depth First Search (DFS):

Code:

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/*DRISHTI_DE, MT20075*/

/*To run the program*/

dfs_route :- get_dfs.

get_dfs :-
    write('Enter your source city: '),nl,
    read(Source),nl,
    write('Enter your destination city: '),nl,
    read(Destination),nl,
    find_dfs(Source, Destination, [Source], Path),nl,
    write('The best route from your source to destination is:
'),nl,
    write(Path).

/*Routes from one place to another*/

route(agartala,ahmedabad,3305).
route(ahmedabad,agartala,3305).
route(agartala,bangalore,3824).
route(bangalore,agartala,3824).
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route(agartala,bombay,3593).
route(bombay,agartala,3593).
route(agartala,calcutta,1863).
route(calcutta,agartala,1863).
route(agartala,chandigarh,2998).
route(chandigarh,agartala,2998).
route(agartala,cochin,4304).
route(cochin,agartala,4304).
route(agartala,delhi,2708).
route(delhi,agartala,2708).
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route(cochin,agra,2278) .
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route(shillong,hyderabad,1309) .
route(hyderabad,shillong,1309) .
route(shillong,indore,2309) .
route(indore,shillong,2309) .
route(shillong,jaipur,2229) .
route(jaipur,shillong,2229) .
route(shillong,kanpur,1699) .
route(kanpur,shillong,1699) .
route(shillong,lucknow,1670) .
route(lucknow,shillong,1670) .
route(shillong,madras,2911) .
route(madras,shillong,2911) .
route(shillong,nagpur,2114) .
route(nagpur,shillong,2114) .
route(shillong,nasik,2800) .

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route(nasik,shillong,2800).
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route(panjim,shillong,2925).
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route(patna,shillong,1019).
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route(pondicherry,shillong,3079).
route(shillong,pune,2860).
route(pune,shillong,2860).
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route(panjim,shimla,2130).
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route(patna,shimla,1434).
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route(pune,shimla,1782) .
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route(ahmedabad,surat,263) .
route(surat,bangalore,1264) .
route(bangalore,surat,1264) .
route(surat,bhubaneshwar,1579) .
route(bhubaneshwar,surat,1579) .
route(surat,bombay,301) .
route(bombay,surat,301) .
route(surat,calcutta,1912) .
route(calcutta,surat,1912) .
route(surat,chandigarh,1325) .
route(chandigarh,surat,1325) .
route(surat,cochin,1593) .
route(cochin,surat,1593) .
route(surat,delhi,1182) .
route(delhi,surat,1182) .
route(surat,hyderabad,983) .
route(hyderabad,surat,983) .
route(surat,indore,607) .
route(indore,surat,607) .
route(surat,jaipur,932) .
route(jaipur,surat,932) .
route(surat,kanpur,1296) .
route(kanpur,surat,1296) .
route(surat,lucknow,1375) .
route(lucknow,surat,1375) .
route(surat,madras,1695) .
route(madras,surat,1695) .
route(surat,nagpur,749) .
route(nagpur,surat,749) .
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route(nasik,surat,262) .
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route(panjim,surat,913) .
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route(patna,surat,1742) .
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route(pondicherry,surat,1789) .
route(surat,pune,412) .
route(pune,surat,412) .
route(trivandrum,ahmedabad,2197) .

route(ahmedabad,trivandrum,2197) .
route(trivandrum,bangalore,696) .
route(bangalore,trivandrum,696) .
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route(bombay,trivandrum,1376) .
route(trivandrum,calcutta,2376) .
route(calcutta,trivandrum,2376) .
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route(chandigarh,trivandrum,3051) .
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route(cochin,trivandrum,218) .
route(trivandrum,delhi,1950) .
route(delhi,trivandrum,1950) .
route(trivandrum,hyderabad,1261) .
route(hyderabad,trivandrum,1261) .
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route(indore,trivandrum,2156) .
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route(jaipur,trivandrum,2782) .
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route(kanpur,trivandrum,2611) .
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route(lucknow,trivandrum,2690) .
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route(madras,trivandrum,748) .
route(trivandrum,nagpur,1834) .
route(nagpur,trivandrum,1834) .
route(trivandrum,nasik,1742) .
route(nasik,trivandrum,1742) .
route(trivandrum,panjim,792) .
route(panjim,trivandrum,792) .
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route(patna,trivandrum,2827) .
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route(pondicherry,trivandrum,622) .
route(trivandrum,pune,1533) .
route(pune,trivandrum,1533) .
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route(ahmedabad,varanasi,1373) .
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route(bangalore,varanasi,1791) .
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route(bhubaneshwar,varanasi,968) .

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route(bombay,varanasi,1597) .
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route(calcutta,varanasi,695) .
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route(chandigarh,varanasi,1032) .
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route(cochin,varanasi,2331) .
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route(delhi,varanasi,745) .
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route(hyderabad,varanasi,1189) .
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route(indore,varanasi,925) .
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route(jaipur,varanasi,835) .
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route(kanpur,varanasi,315) .
route(varanasi,lucknow,286) .
route(lucknow,varanasi,286) .
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route(madras,varanasi,1985) .
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route(nagpur,varanasi,713) .
route(varanasi,nasik,1399) .
route(nasik,varanasi,1399) .
route(varanasi,panjim,1524) .
route(panjim,varanasi,1524) .
route(varanasi,patna,280) .
route(patna,varanasi,280) .
route(varanasi,pondicherry,2153) .
route(pondicherry,varanasi,2153) .
route(varanasi,pune,1459) .
route(pune,varanasi,1459) .
route(vijayawada,ahmedabad,1705) .
route(ahmedabad,vijayawada,1705) .
route(vijayawada,bangalore,637) .
route(bangalore,vijayawada,637) .
route(vijayawada,bhubaneshwar,775) .
route(bhubaneshwar,vijayawada,775) .
route(vijayawada,bombay,973) .
route(bombay,vijayawada,973) .
route(vijayawada,calcutta,1198) .
route(calcutta,vijayawada,1198) .
route(vijayawada,chandigarh,1959) .

route(chandigarh,vijayawada,1959) .
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route(cochin,vijayawada,1174) .
route(vijayawada,delhi,1716) .
route(delhi,vijayawada,1716) .
route(vijayawada,hyderabad,269) .
route(hyderabad,vijayawada,269) .
route(vijayawada,indore,1255) .
route(indore,vijayawada,1255) .
route(vijayawada,jaipur,1660) .
route(jaipur,vijayawada,1660) .
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route(kanpur,vijayawada,1519) .
route(vijayawada,lucknow,1598) .
route(lucknow,vijayawada,1598) .
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route(madras,vijayawada,432) .
route(vijayawada,nagpur,742) .
route(nagpur,vijayawada,742) .
route(vijayawada,nasik,1428) .
route(nasik,vijayawada,1428) .
route(vijayawada,panjim,876) .
route(panjim,vijayawada,876) .
route(vijayawada,patna,1664) .
route(patna,vijayawada,1664) .
route(vijayawada,pondicherry,598) .
route(pondicherry,vijayawada,598) .
route(vijayawada,pune,842) .
route(pune,vijayawada,842) .
route(vishakapatnam,ahmedabad,1815) .
route(ahmedabad,vishakapatnam,1815) .
route(vishakapatnam,bangalore,1093) .
route(bangalore,vishakapatnam,1093) .
route(vishakapatnam,bhubaneshwar,445) .
route(bhubaneshwar,vishakapatnam,445) .
route(vishakapatnam,bombay,1754) .
route(bombay,vishakapatnam,1754) .
route(vishakapatnam,calcutta,868) .
route(calcutta,vishakapatnam,868) .
route(vishakapatnam,chandigarh,2127) .
route(chandigarh,vishakapatnam,2127) .
route(vishakapatnam,cochin,1449) .
route(cochin,vishakapatnam,1449) .
route(vishakapatnam,delhi,1881) .
route(delhi,vishakapatnam,1881) .

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route(vishakapatnam,hyderabad,599) .
route(hyderabad,vishakapatnam,599) .
route(vishakapatnam,indore,1433) .
route(indore,vishakapatnam,1433) .
route(vishakapatnam,jaipur,1838) .
route(jaipur,vishakapatnam,1838) .
route(vishakapatnam,kanpur,1687) .
route(kanpur,vishakapatnam,1687) .
route(vishakapatnam,lucknow,1765) .
route(lucknow,vishakapatnam,1765) .
route(vishakapatnam,madras,762) .
route(madras,vishakapatnam,762) .
route(vishakapatnam,nagpur,910) .
route(nagpur,vishakapatnam,910) .
route(vishakapatnam,nasik,1596) .
route(nasik,vishakapatnam,1596) .
route(vishakapatnam,panjim,1206) .
route(panjim,vishakapatnam,1206) .
route(vishakapatnam,patna,1334) .
route(patna,vishakapatnam,1334) .
route(vishakapatnam,pondicherry,930) .
route(pondicherry,vishakapatnam,930) .
route(vishakapatnam,pune,1658) .
route(pune,vishakapatnam,1658) .

%append_to_list(Visited,Source) .

/*main function to compute and return best DFS path from one
city to another*/

find_dfs(Destination, Destination, _, [Destination]).
find_dfs(Source, Destination, Visited, [Source|Path]) :-
    city_next(Source, City_next, Visited),
    find_dfs(City_next, Destination, [City_next|Visited], Path) .

/*To find the next city in the path to be taken - must not be
visited before*/

city_next(Current,Next,Path) :-
    route(Current,Next, _),
    not(member(Next,Path)) .

```

Screenshot for the program:

```
?-
% c:/Users/dedri/OneDrive/Documents/Prolog/dfs_route.pl compiled 0.05 sec, 0 clauses
?- dfs_route.
Enter your source city:
|: bangalore.

Enter your destination city:
|: delhi.

The best route from your source to destination is:
[bangalore,agartala,ahmedabad,agra,bhubaneshwar,allahabad,bombay,amritsar,calcutta,asan
sol,chandigarh,baroda,cochin,bhopal,delhi]
true .

?- dfs_route.
Enter your source city:
|: patna.

Enter your destination city:
|: delhi.

The best route from your source to destination is:
[patna,agartala,ahmedabad,agra,bangalore,allahabad,bhubaneshwar,amritsar,bombay,asansol
,calcutta,baroda,chandigarh,bhopal,cochin,calicut,delhi]
true .

?- dfs_route.
Enter your source city:
|: ahmedabad.

Enter your destination city:
|: agartala.

The best route from your source to destination is:
[ahmedabad,agartala]
true .

?- dfs_route.
Enter your source city:
|: kanpur.

Enter your destination city:
|: agra.

The best route from your source to destination is:
[kanpur,agartala,ahmedabad,agra]
true .

?- ■
```

2. For Best First Search program:

Code:

```
/*Drishti De - MT20075*/

best_first_search_path :-
    write('Enter your source city: '),nl,
    read(Source),
    write('Enter your destination city: '),nl,
    read(Destination),

    find_best_first(Source, Destination, Path, Available, Visited),
    write(Path).

/*Routes from one city to another*/

route( agartala , ahmedabad , 3305 ).
route( ahmedabad , agartala , 3305 ).
route( agartala , bangalore , 3824 ).
route( bangalore , agartala , 3824 ).
route( agartala , bhubaneshwar , 2286 ).
route( bhubaneshwar , agartala , 2286 ).
route( agartala , bombay , 3593 ).
route( bombay , agartala , 3593 ).
route( agartala , calcutta , 1863 ).
route( calcutta , agartala , 1863 ).
route( agartala , chandigarh , 2998 ).
route( chandigarh , agartala , 2998 ).
route( agartala , cochin , 4304 ).
route( cochin , agartala , 4304 ).
route( agartala , delhi , 2708 ).
route( delhi , agartala , 2708 ).
route( agartala , hyderabad , 3330 ).
route( hyderabad , agartala , 3330 ).
route( agartala , indore , 2891 ).
route( indore , agartala , 2891 ).
route( agartala , jaipur , 2801 ).
route( jaipur , agartala , 2801 ).
route( agartala , kanpur , 2281 ).
route( kanpur , agartala , 2281 ).
route( agartala , lucknow , 2252 ).
route( lucknow , agartala , 2252 ).
route( agartala , madras , 3493 ).
route( madras , agartala , 3493 ).
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route( agartala , nagpur , 2696 ).
route( nagpur , agartala , 2696 ).
route( agartala , nasik , 3365 ).
route( nasik , agartala , 3365 ).
route( agartala , panjim , 3507 ).
route( panjim , agartala , 3507 ).
route( agartala , patna , 1681 ).
route( patna , agartala , 1681 ).
route( agartala , pondicherry , 3661 ).
route( pondicherry , agartala , 3661 ).
route( agartala , pune , 3442 ).
route( pune , agartala , 3442 ).
route( agra , ahmedabad , 878 ).
route( ahmedabad , agra , 878 ).
route( agra , bangalore , 1848 ).
route( bangalore , agra , 1848 ).
route( agra , bhubaneshwar , 1578 ).
route( bhubaneshwar , agra , 1578 ).
route( agra , bombay , 1202 ).
route( bombay , agra , 1202 ).
route( agra , calcutta , 1300 ).
route( calcutta , agra , 1300 ).
route( agra , chandigarh , 448 ).
route( chandigarh , agra , 448 ).
route( agra , cochin , 2278 ).
route( cochin , agra , 2278 ).
route( agra , delhi , 200 ).
route( delhi , agra , 200 ).
route( agra , hyderabad , 1246 ).
route( hyderabad , agra , 1246 ).
route( agra , indore , 591 ).
route( indore , agra , 591 ).
route( agra , jaipur , 230 ).
route( jaipur , agra , 230 ).
route( agra , kanpur , 290 ).
route( kanpur , agra , 290 ).
route( agra , lucknow , 369 ).
route( lucknow , agra , 369 ).
route( agra , madras , 2048 ).
route( madras , agra , 2048 ).
route( agra , nagpur , 770 ).
route( nagpur , agra , 770 ).
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route( nasik , agra , 1005 ).
route( agra , panjim , 1715 ).
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route( panjim , agra , 1715 ).
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route( patna , agra , 885 ).
route( agra , pondicherry , 2210 ).
route( pondicherry , agra , 2210 ).
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route( bangalore , ahmedabad , 1490 ).
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route( bhubaneshwar , ahmedabad , 1697 ).
route( ahmedabad , bombay , 552 ).
route( bombay , ahmedabad , 552 ).
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route( calcutta , ahmedabad , 2068 ).
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route( chandigarh , ahmedabad , 1157 ).
route( ahmedabad , cochin , 1845 ).
route( cochin , ahmedabad , 1845 ).
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route( delhi , ahmedabad , 911 ).
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route( indore , ahmedabad , 442 ).
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route( kanpur , ahmedabad , 1168 ).
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route( nasik , ahmedabad , 504 ).
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route( bhubaneshwar , allahabad , 1090 ).
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route( bombay , allahabad , 1457 ).
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route( calcutta , allahabad , 817 ).
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route( chandigarh , allahabad , 912 ).
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route( cochin , allahabad , 2216 ).
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route( allahabad , indore , 803 ).
route( indore , allahabad , 803 ).
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route( jaipur , allahabad , 713 ).
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route( kanpur , allahabad , 193 ).
route( allahabad , lucknow , 234 ).
route( lucknow , allahabad , 234 ).
route( allahabad , madras , 2011 ).
route( madras , allahabad , 2011 ).
route( allahabad , nagpur , 608 ).
route( nagpur , allahabad , 608 ).
route( allahabad , nasik , 1155 ).
route( nasik , allahabad , 1155 ).
route( allahabad , panjim , 1419 ).
route( panjim , allahabad , 1419 ).
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route( patna , allahabad , 402 ).
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route( allahabad , pune , 1364 ).
route( pune , allahabad , 1364 ).
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route( bangalore , amritsar , 2496 ).
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/*Assumed heuristics - consistent and admissible*/

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heuristics( vijayawada , vishakapatnam , 838 ).
heuristics( vishakapatnam , vishakapatnam , 0 ).

```

```

/*The main function that is called for resultant Path*/

```

```

find_best_first(Source, Destination, Path, Available, Visited) :-
    Source = Destination,
    Path = [Source],
    show_message().

/*Recursive function to perform Best First Informed Search*/

find_best_first(Source, Destination, Path, Available, Visited) :-
    not(Source = Destination),
    add_one(Visited, [Source], Array),
    find_all_nodes([Node, H_val], (route(Source, Node, _),
    heuristics(Node, Destination, H_val)), Next_list),
    append(Available, Next_list, Des),
    pedsort(sort, Des, Sorted),
    Sorted=[ [Min, _] | New_nodes],

find_best_first(Min, Destination, Next_path, New_nodes, Array),
    add_two([Source], Next_path, Path).

/*Sorting to be done for the algorithm*/

sort(<, [_ , N1 | _], [_ , N2 | _]) :-
    N1 @< N2.

sort(>, [_ , _ | _], [_ , _ | _]).

/*Two types of append functions to add to respective lists for
the algorithm*/

add_one(Visited, [Source], Array) :-
    append(Visited, [Source], Array).

add_two([Source], Next_path, Path) :-
    append([Source], Next_path, Path).

/*Finding all nodes for the path to be traversed based on cost
and heuristics*/

find_all_nodes([Node, H_val],
(route(Source, Node, _), heuristics(Node, Destination, H_val)), Next_
list) :-

```

```

        findall([Node,H_val],
(route(Source,Node,_),heuristics(Node,Destination,H_val)),Next_
list).

```

```

/*Message to be shown while displaying the path result*/

```

```

show_message():-
    write("The best obtained path from source to destination
is: "),nl.

```

Screenshot for the program:

```

?-
Warning: c:/users/dedri/onedrive/documents/prolog/best_first_search_path.pl:3:
Singleton variables: [Available,Visited]
Warning: c:/users/dedri/onedrive/documents/prolog/best_first_search_path.pl:6256:
Singleton variables: [Available,Visited]
% c:/Users/dedri/OneDrive/Documents/Prolog/best_first_search_path.pl compiled 0.09 sec, 6,2
41 clauses
?- best_first_search_path.
Enter your source city:
|: bangalore.
Enter your destination city:
|: delhi.
The best obtained path from source to destination is:
[bangalore,delhi]
true .

?- best_first_search_path.
Enter your source city:
|: agra.
Enter your destination city:
|: agartala.
The best obtained path from source to destination is:
[agra,patna,agartala]
true .

```