
Table of Contents

HW 1 Run Script	1
Section 2-7	1
Problem 1	1
Problem 2	1
Problem 3	2
Problem 4	3

HW 1 Run Script

Devon Quaternik ELEN 249

```
clear;  
close all;
```

Section 2-7

Problem 1

Part a

```
l1 = [-1 0 -1; 7 -1 3; 3 -1 -1];  
d = 3;  
  
tinf1a = LPath(l1,d)  
  
% Part b  
wb = [inf 0 inf; -7 inf -3; -3 inf inf];  
tinf1B = MCM(wb,d)
```

```
tinf1a =  
  
3.5000  
  
tinf1B =  
  
3.5000
```

Problem 2

Part a

```
l1 = [-1 0 -1 -1 -1 -1 -1 -1; -1 -1 0 -1 -1 -1 -1 -1; -1 -1 -1 0 -1  
-1 ...
```

```

        -1 -1; 3 -1 -1 -1 1 -1 -1 -1; -1 -1 -1 -1 -1 0 -1 -1; -1 -1 -1
    -1 ...
        -1 -1 0 -1; -1 -1 -1 -1 -1 -1 -1 0; 4 -1 -1 -1 7 -1 -1 -1];
d = 8;
tinf2a = LPath(l1,d)

%Part b
wb = [inf 0 inf inf inf inf inf; inf inf 0 inf inf inf inf inf;
    inf ...
        inf inf 0 inf inf inf inf; -3 inf inf inf -1 inf inf inf; inf
    inf ...
        inf inf inf 0 inf inf; inf inf inf inf inf inf 0 inf; inf inf
    inf ...
        inf inf inf inf 0; -4 inf inf inf -7 inf inf inf];
tinf2b = MCM(wb,d)

tinf2a =

    1.7500

tinf2b =

    1.7500

```

Problem 3

Part a

```

l1 = [ 4 4 -1 4 0 4; -1 -1 0 -1 -1 -1; 4 4 -1 4 -1 4; -1 -1 -1 -1 0
    -1; ...
        -1 -1 -1 -1 -1 -1; -1 -1 -1 -1 -1 -1];
d = 6;

tinf3a = LPath(l1,d)

% Part b
wb = [ -4 -4 inf -4 0 -4; inf inf 0 inf inf inf; -4 -4 inf -4 inf
    -4; ...
        inf inf inf inf 0 inf; inf inf inf inf inf inf; inf inf inf inf inf
    inf];

tinf3b = MCM(wb,d)

tinf3a =

    4

tinf3b =

```

Problem 4

Part a

```
l1 = [4 0 -1; 5 -1 0; 5 -1 -1];  
d = 3;
```

```
tinf4a = LPath(l1,d)
```

```
% Part b
```

```
w = [-4 0 inf; -5 inf 0; -5 inf inf];
```

```
tinf4b = MCM(wb,d)
```

```
tinf4a =
```

4

```
tinf4b =
```

4

Published with MATLAB® R2015a