# BFS - Informed Search

PARSHWANATH CHARITABLE TRUST'S



#### A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering
Data Science



A has sent to find the	
h(n)=no. of misplac	ed Ales
Ī	G
1 4 2	0 1 2
h(n) = 8  6  5  8	3 4 5
7 3 0	6 7 8
	11 14 2
1 4 2	
6 5 0	6 5 8
7 3 8	7 0 3
	h(n) = 8
h(n) = 7	
	• • •
	•.
140 142	
652 605	
738738	
$h(n)=8 \qquad h(n)=6$	
	W. T. C.
102142	1 4 2
	6 3 5
6 9 3	708
7 5 8 1 1	
h(n) = 5 $h(n) = 6$	h(n) = 6
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$h(n) = \frac{3}{3}$ $\frac{6}{3}$ $\frac{4}{3}$ $\frac{5}{3}$ $\frac{6}{3}$ $\frac{4}{3}$ $\frac{5}{3}$ $\frac{6}{3}$ $\frac{4}{3}$ $\frac{5}{3}$ $\frac{6}{3}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{6}{3}$ $\frac{1}{3}$ $\frac{2}{3}$	
$h(n) = \frac{3}{3}$ $\frac{6}{3}$ $\frac{4}{3}$ $\frac{5}{3}$ $\frac{6}{3}$ $\frac{4}{3}$ $\frac{5}{3}$ $\frac{6}{3}$ $\frac{4}{3}$ $\frac{5}{3}$ $\frac{6}{3}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{6}{3}$ $\frac{1}{3}$ $\frac{2}{3}$	
7 3 8 6 1 2 0 4 5 7 3 8	
6 1 2 0 4 5, 7 3 8	
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_	NCW) = No. of	tiles on correct pe	isition wood misplace
Semester :		Subject :	Academic Year: 20 - 20
	n(n)=4	2 8 3	A(0) = 0 8 4 7 6 5
	2 8 3 1 4 7 6 5 h(n)=33	12 8 3 1 6 4 1 7 5 h(n) = \$5	$\frac{2 \cdot 8 \cdot 3}{1 \cdot 6 \cdot 4}$ $\frac{7}{5}$ $h(n) = 3 \cdot 5$
	3 8 4 7 6 5 n(n) = 3	2 8 3 1 4 7 6 5 h(n) = 3	2 8 3 1 4 7 6 5 h(n)=4
2	2 3 4 1 8 4 1 1 6 5 1 h (n) = 4	1 8 3 2 1 4 7 6 5 h(m) = 3	2 8 3 7 1 4 6 5 h(h) = 4
1 2 2 1 (n)	3 4	$\frac{1}{1} = \frac{2}{3} + \frac{3}{1} = \frac{2}{1} = \frac{3}{1} = \frac{3}$	