

```
1 "C:\Users\Arash Company\Desktop\Robotic\venv\Scripts\
  python.exe" "C:\Users\Arash Company\Desktop\Robotic\
  informed_search.py" SampleRoom.xml
2 I've found an optimal path!!!
3
4 Step: 0
5
6 | | | |R| |*|
7 |*| |*| | | |
8 | | | |*| | |
9 | |*|*|B|*| |
10 | |*| | |*| |
11 | | | | | | |
12
13
14
15
16 Step: 1
17
18 | | | | |*|
19 |*| |*|R| | |
20 | | | |*| | |
21 | |*|*|B|*| |
22 | |*| | |*| |
23 | | | | | | |
24
25
26
27
28 Step: 2
29
30 | | | | |*|
31 |*| |*| |R| |
32 | | | |*| | |
33 | |*|*|B|*| |
34 | |*| | |*| |
35 | | | | | | |
36
37
38
39
```

40 Step: 3

41

42 | | | | | *

43 |*| |*| | |

44 | | | |*|R| |

45 | |*|*|B|*| |

46 | |*| | |*| |

47 | | | | | |

48

49

50

51

52 Step: 4

53

54 | | | | | *

55 |*| |*| | |

56 | | | |*| R|

57 | |*|*|B|*| |

58 | |*| | |*| |

59 | | | | | |

60

61

62

63

64 Step: 5

65

66 | | | | | *

67 |*| |*| | |

68 | | | |*| |

69 | |*|*|B|*|R|

70 | |*| | |*| |

71 | | | | | |

72

73

74

75

76 Step: 6

77

78 | | | | | *

79 |*| |*| | |

80 | | | |*| |

```
81 | | *|*|B|*| |
82 | | *| | | *|R|
83 | | | | | | |
84
85
86
87
88 Step: 7
89
90 | | | | | | *|
91 |*| |*| | | |
92 | | | |*| | |
93 | |*|*|B|*| |
94 | |*| | |*| |
95 | | | | | |R|
96
97
98
99
100 Step: 8
101
102 | | | | | | *|
103 |*| |*| | | |
104 | | | |*| | |
105 | |*|*|B|*| |
106 | |*| | |*| |
107 | | | | |R| |
108
109
110
111
112 Step: 9
113
114 | | | | | | *|
115 |*| |*| | | |
116 | | | |*| | |
117 | |*|*|B|*| |
118 | |*| | |*| |
119 | | | |R| | |
120
121
```

```
122
123
124 Step: 10
125
126 | | | | | *|
127 |*| |*| | | |
128 | | | *| | |
129 | |*|*|B|*| |
130 | |*| |R|*| |
131 | | | | | | |
132
133
134
135
136 Step: 11
137
138 | | | | | *|
139 |*| |*| | | |
140 | | | *| | |
141 | |*|*|R|*| |
142 | |*| | |*| |
143 | | | | | | |
144
145
146
147
148
149 Process finished with exit code 0
150
```