# Attestor Report

August 14, 2019

## Contents


**1 Critical Pair Report** **1**

1.1 Critical Pair (Not Joinable) . . . 1
1.2 Critical Pair (Not Joinable) . . . 2
1.3 Critical Pair (Not Joinable) . . . 3
1.4 Critical Pair (Not Joinable) . . . 4
1.5 Critical Pair (Not Joinable) . . . 5
1.6 Critical Pair (Not Joinable) . . . 6
1.7 Critical Pair (Not Joinable) . . . 7
1.8 Critical Pair (Not Joinable) . . . 8
1.9 Critical Pair (Not Joinable) . . . 9
1.10 Critical Pair (Not Joinable) . . . 10
1.11 Critical Pair (Not Joinable) . . . 11
1.12 Critical Pair (Not Joinable) . . . 12
1.13 Critical Pair (Not Joinable) . . . 13
1.14 Critical Pair (Not Joinable) . . . 14
1.15 Critical Pair (Not Joinable) . . . 15
1.16 Critical Pair (Not Joinable) . . . 16
1.17 Critical Pair (Not Joinable) . . . 17
1.18 Critical Pair (Not Joinable) . . . 18
1.19 Critical Pair (Not Joinable) . . . 19
1.20 Critical Pair (Not Joinable) . . . 20
1.21 Critical Pair (Not Joinable) . . . 21
1.22 Critical Pair (Not Joinable) . . . 22
1.23 Critical Pair (Not Joinable) . . . 23
1.24 Critical Pair (Not Joinable) . . . 24
1.25 Critical Pair (Not Joinable) . . . 25
1.26 Critical Pair (Not Joinable) . . . 26
1.27 Critical Pair (Not Joinable) . . . 27
1.28 Critical Pair (Not Joinable) . . . 28
1.29 Critical Pair (Not Joinable) . . . 29
1.30 Critical Pair (Not Joinable) . . . 30
1.31 Critical Pair (Not Joinable) . . . 31
1.32 Critical Pair (Not Joinable) . . . 32
1.33 Critical Pair (Not Joinable) . . . 33
1.34 Critical Pair (Not Joinable) . . . 34
1.35 Critical Pair (Not Joinable) . . . 35
1.36 Critical Pair (Not Joinable) . . . 36
1.37 Critical Pair (Not Joinable) . . . 37
1.38 Critical Pair (Not Joinable) . . . 38
1.39 Critical Pair (Not Joinable) . . . 39
1.40 Critical Pair (Not Joinable) . . . 40
1.41 Critical Pair (Not Joinable) . . . 41
1.42 Critical Pair (Not Joinable) . . . 42
1.43 Critical Pair (Not Joinable) . . . 43
1.44 Critical Pair (Not Joinable) . . . 44
1.45 Critical Pair (Not Joinable) . . . 45
1.46 Critical Pair (Not Joinable) . . . 46
1.47 Critical Pair (Not Joinable) . . . 47
1.48 Critical Pair (Not Joinable) . . . 48
1.49 Critical Pair (Not Joinable) . . . 49
1.50 Critical Pair (Not Joinable) . . . 50
1.51 Critical Pair (Not Joinable) . . . 51
1.52 Critical Pair (Not Joinable) . . . 52
1.53 Critical Pair (Not Joinable) . . . 53
1.54 Critical Pair (Not Joinable) . . . 54
1.55 Critical Pair (Not Joinable) . . . 55
1.56 Critical Pair (Not Joinable) . . . 56
1.57 Critical Pair (Not Joinable) . . . 57
1.58 Critical Pair (Not Joinable) . . . 58
1.59 Critical Pair (Not Joinable) . . . 59
1.60 Critical Pair (Not Joinable) . . . 60
1.61 Critical Pair (Not Joinable) . . . 61
1.62 Critical Pair (Not Joinable) . . . 62
1.63 Critical Pair (Not Joinable) . . . 63
1.64 Critical Pair (Not Joinable) . . . 64
1.65 Critical Pair (Not Joinable) . . . 65
1.66 Critical Pair (Not Joinable) . . . 66
1.67 Critical Pair (Not Joinable) . . . 67
1.68 Critical Pair (Not Joinable) . . . 68
1.69 Critical Pair (Not Joinable) . . . 69
1.70 Critical Pair (Not Joinable) . . . 70
1.71 Critical Pair (Not Joinable) . . . 71
1.72 Critical Pair (Not Joinable) . . . 72
1.73 Critical Pair (Not Joinable) . . . 73
1.74 Critical Pair (Not Joinable) . . . 74
1.75 Critical Pair (Not Joinable) . . . 75

1.76 Critical Pair (Not Joinable) . . . 76
1.77 Critical Pair (Not Joinable) . . . 77
1.78 Critical Pair (Not Joinable) . . . 78
1.79 Critical Pair (Not Joinable) . . . 79
1.80 Critical Pair (Not Joinable) . . . 80
1.81 Critical Pair (Not Joinable) . . . 81
1.82 Critical Pair (Not Joinable) . . . 82
1.83 Critical Pair (Not Joinable) . . . 83
1.84 Critical Pair (Not Joinable) . . . 84
1.85 Critical Pair (Not Joinable) . . . 85
1.86 Critical Pair (Not Joinable) . . . 86
1.87 Critical Pair (Not Joinable) . . . 87
1.88 Critical Pair (Not Joinable) . . . 88
1.89 Critical Pair (Not Joinable) . . . 89
1.90 Critical Pair (Not Joinable) . . . 90
1.91 Critical Pair (Not Joinable) . . . 91
1.92 Critical Pair (Not Joinable) . . . 92
1.93 Critical Pair (Not Joinable) . . . 93
1.94 Critical Pair (Not Joinable) . . . 94
1.95 Critical Pair (Not Joinable) . . . 95
1.96 Critical Pair (Not Joinable) . . . 96
1.97 Critical Pair (Not Joinable) . . . 97
1.98 Critical Pair (Not Joinable) . . . 98
1.99 Critical Pair (Not Joinable) . . . 99
1.100Critical Pair (Not Joinable) . . . 100
1.101Critical Pair (Not Joinable) . . . 101
1.102Critical Pair (Not Joinable) . . . 102
1.103Critical Pair (Not Joinable) . . . 103
1.104Critical Pair (Not Joinable) . . . 104
1.105Critical Pair (Not Joinable) . . . 105
1.106Critical Pair (Not Joinable) . . . 106
1.107Critical Pair (Not Joinable) . . . 107
1.108Critical Pair (Not Joinable) . . . 108
1.109Critical Pair (Not Joinable) . . . 109
1.110Critical Pair (Not Joinable) . . . 110
1.111Critical Pair (Not Joinable) . . . 111
1.112Critical Pair (Not Joinable) . . . 112
1.113Critical Pair (Not Joinable) . . . 113
1.114Critical Pair (Not Joinable) . . . 114
1.115Critical Pair (Not Joinable) . . . 115
1.116Critical Pair (Not Joinable) . . . 116
1.117Critical Pair (Not Joinable) . . . 117
1.118Critical Pair (Not Joinable) . . . 118
1.119Critical Pair (Not Joinable) . . . 119
1.120Critical Pair (Not Joinable) . . . 120
1.121Critical Pair (Not Joinable) . . . 121
1.122Critical Pair (Not Joinable) . . . 122
1.123Critical Pair (Not Joinable) . . . 123
1.124Critical Pair (Not Joinable) . . . 124
1.125Critical Pair (Not Joinable) . . . 125
1.126Critical Pair (Not Joinable) . . . 126
1.127Critical Pair (Not Joinable) . . . 127
1.128Critical Pair (Not Joinable) . . . 128
1.129Critical Pair (Not Joinable) . . . 129
1.130Critical Pair (Not Joinable) . . . 130
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1.132Critical Pair (Not Joinable) . . . 132
1.133Critical Pair (Not Joinable) . . . 133
1.134Critical Pair (Not Joinable) . . . 134
1.135Critical Pair (Not Joinable) . . . 135
1.136Critical Pair (Not Joinable) . . . 136
1.137Critical Pair (Not Joinable) . . . 137
1.138Critical Pair (Not Joinable) . . . 138
1.139Critical Pair (Not Joinable) . . . 139
1.140Critical Pair (Not Joinable) . . . 140
1.141Critical Pair (Not Joinable) . . . 141
1.142Critical Pair (Not Joinable) . . . 142
1.143Critical Pair (Not Joinable) . . . 143
1.144Critical Pair (Not Joinable) . . . 144
1.145Critical Pair (Not Joinable) . . . 145
1.146Critical Pair (Not Joinable) . . . 146
1.147Critical Pair (Not Joinable) . . . 147
1.148Critical Pair (Not Joinable) . . . 148
1.149Critical Pair (Not Joinable) . . . 149
1.150Critical Pair (Not Joinable) . . . 150
1.151Critical Pair (Not Joinable) . . . 151
1.152Critical Pair (Not Joinable) . . . 152
1.153Critical Pair (Not Joinable) . . . 153
1.154Critical Pair (Not Joinable) . . . 154
1.155Critical Pair (Not Joinable) . . . 155
1.156Critical Pair (Not Joinable) . . . 156
1.157Critical Pair (Not Joinable) . . . 157
1.158Critical Pair (Not Joinable) . . . 158
1.159Critical Pair (Not Joinable) . . . 159
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1.161Critical Pair (Not Joinable) . . . 161
1.162Critical Pair (Not Joinable) . . . 162
1.163Critical Pair (Not Joinable) . . . 163
1.164Critical Pair (Not Joinable) . . . 164
1.165Critical Pair (Not Joinable) . . . 165

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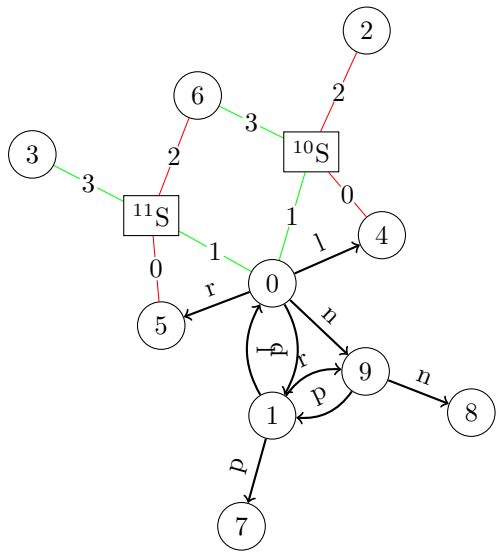
1.167Critical Pair (Not Joinable) . . . 167
1.168Critical Pair (Not Joinable) . . . 168
1.169Critical Pair (Not Joinable) . . . 169
1.170Critical Pair (Not Joinable) . . . 170
1.171Critical Pair (Not Joinable) . . . 171
1.172Critical Pair (Not Joinable) . . . 172
1.173Critical Pair (Not Joinable) . . . 173
1.174Critical Pair (Not Joinable) . . . 174
1.175Critical Pair (Not Joinable) . . . 175
1.176Critical Pair (Not Joinable) . . . 176
1.177Critical Pair (Not Joinable) . . . 177
1.178Critical Pair (Not Joinable) . . . 178
1.179Critical Pair (Weakly Joinable) . . . 179
1.180Critical Pair (Not Joinable) . . . 179
1.181Critical Pair (Not Joinable) . . . 180
1.182Critical Pair (Not Joinable) . . . 181
1.183Critical Pair (Not Joinable) . . . 182
1.184Critical Pair (Not Joinable) . . . 183
1.185Critical Pair (Weakly Joinable) . . . 184
1.186Critical Pair (Not Joinable) . . . 184
1.187Critical Pair (Not Joinable) . . . 185
1.188Critical Pair (Not Joinable) . . . 186
1.189Critical Pair (Not Joinable) . . . 187
1.190Critical Pair (Weakly Joinable) . . . 188
1.191Critical Pair (Weakly Joinable) . . . 189
1.192Critical Pair (Not Joinable) . . . 190
1.193Critical Pair (Not Joinable) . . . 191
1.194Critical Pair (Not Joinable) . . . 192
1.195Critical Pair (Not Joinable) . . . 193
1.196Critical Pair (Not Joinable) . . . 194
1.197Critical Pair (Not Joinable) . . . 195
1.198Critical Pair (Not Joinable) . . . 196
1.199Critical Pair (Not Joinable) . . . 197
1.200Critical Pair (Not Joinable) . . . 198
1.201Critical Pair (Not Joinable) . . . 199
1.202Critical Pair (Not Joinable) . . . 200
1.203Critical Pair (Not Joinable) . . . 201
1.204Critical Pair (Not Joinable) . . . 202
1.205Critical Pair (Not Joinable) . . . 203
1.206Critical Pair (Not Joinable) . . . 204
1.207Critical Pair (Not Joinable) . . . 205
1.208Critical Pair (Not Joinable) . . . 206
1.209Critical Pair (Not Joinable) . . . 207
1.210Critical Pair (Not Joinable) . . . 208
1.211Critical Pair (Not Joinable) . . . 209
1.212Critical Pair (Not Joinable) . . . 210
1.213Critical Pair (Not Joinable) . . . 211
1.214Critical Pair (Not Joinable) . . . 212
1.215Critical Pair (Not Joinable) . . . 213
1.216Critical Pair (Not Joinable) . . . 214
1.217Critical Pair (Not Joinable) . . . 215
1.218Critical Pair (Not Joinable) . . . 216
1.219Critical Pair (Not Joinable) . . . 217
1.220Critical Pair (Not Joinable) . . . 218
1.221Critical Pair (Not Joinable) . . . 219

# 1 Critical Pair Report

## 1.1 Critical Pair (Not Joinable)

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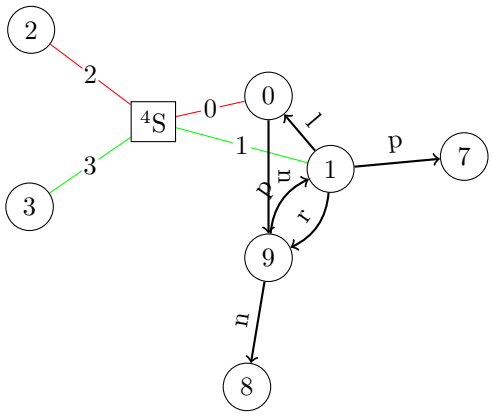


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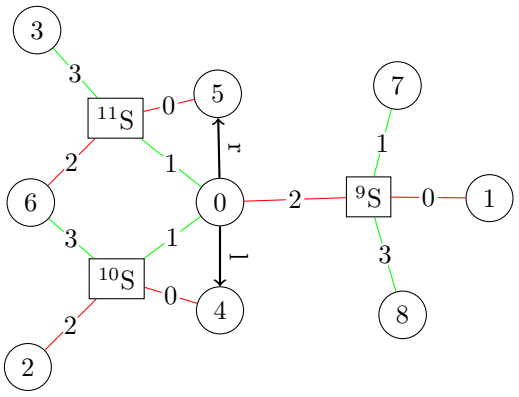


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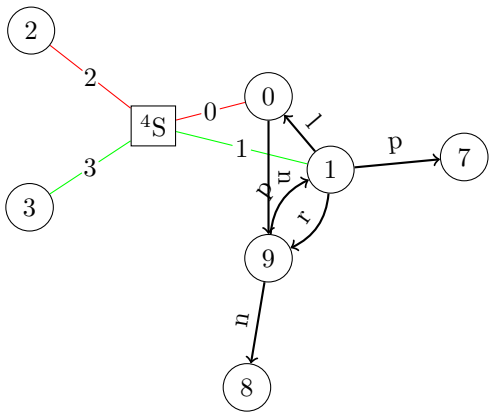


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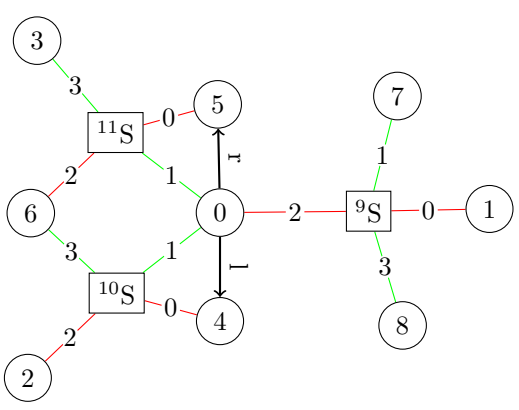

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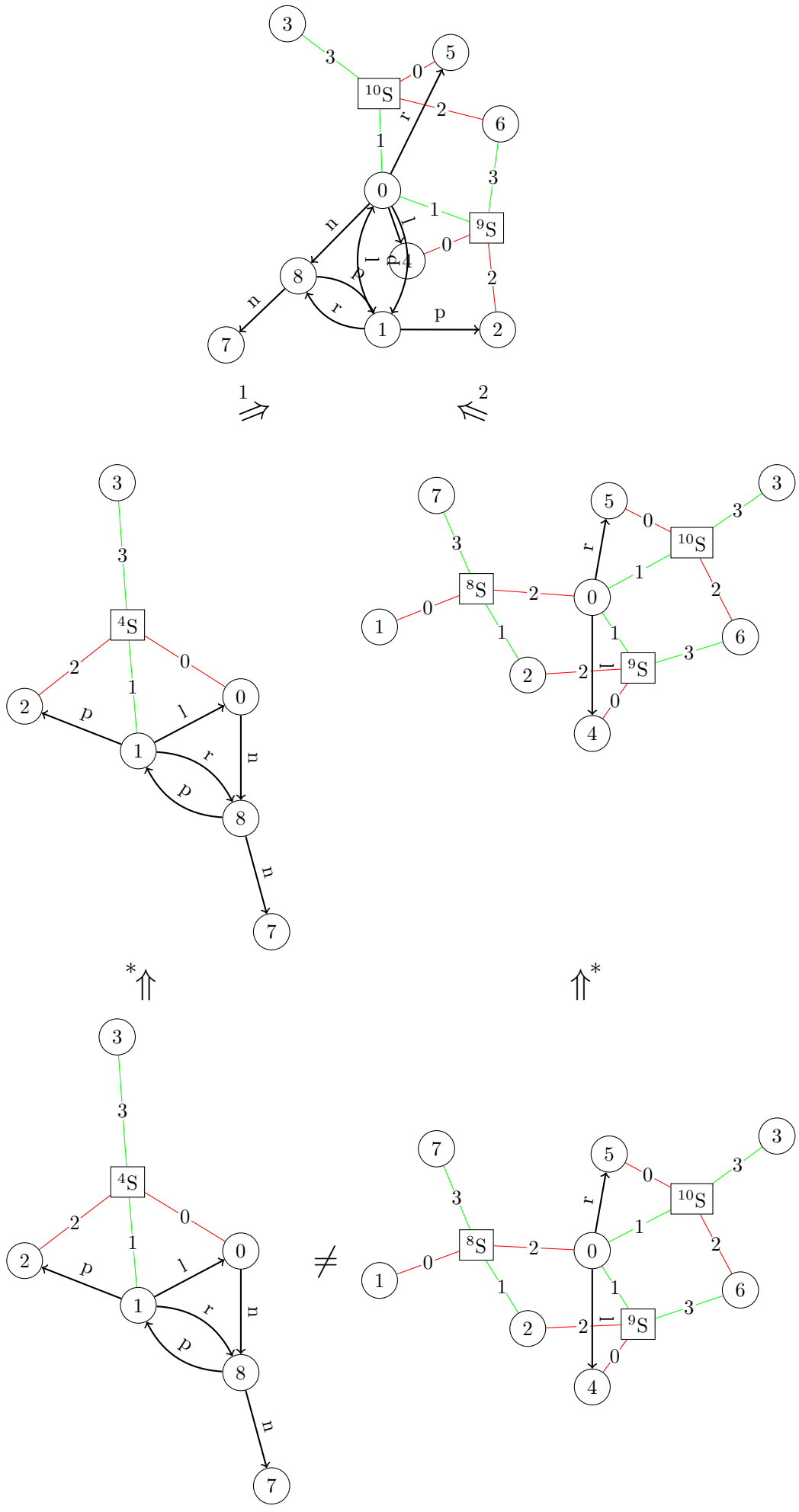





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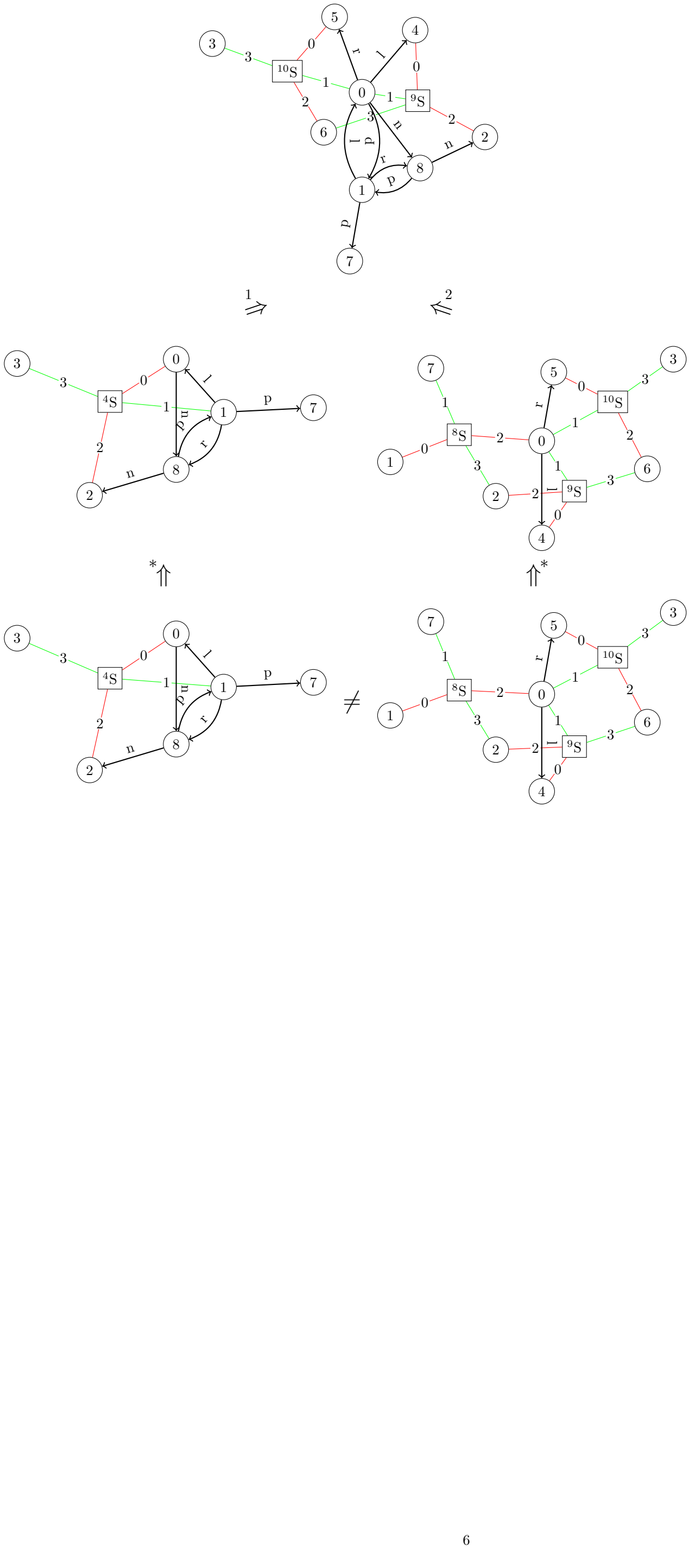

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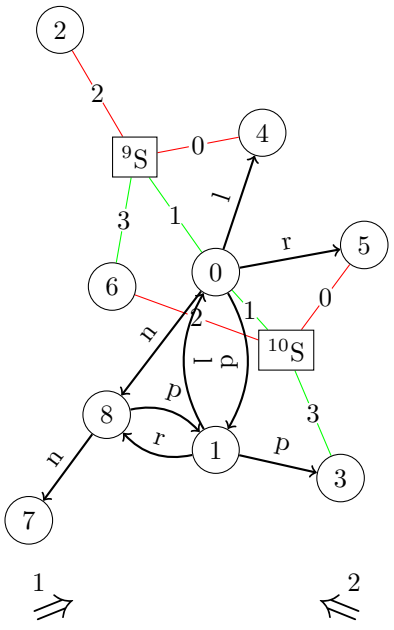


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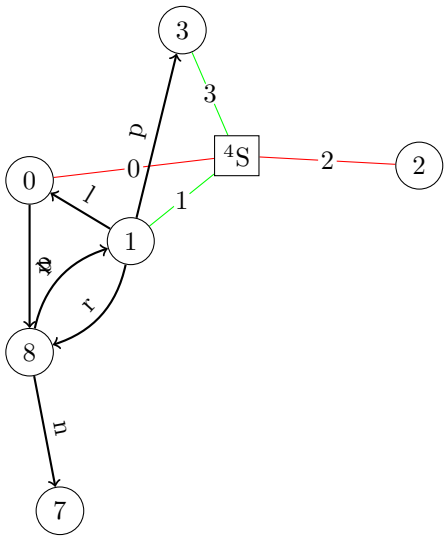


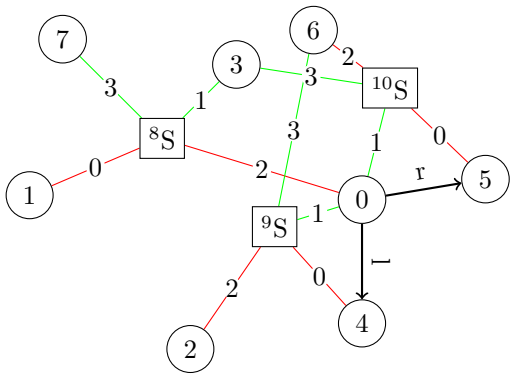


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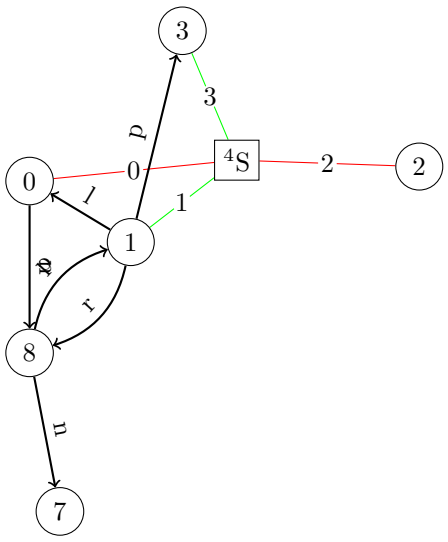


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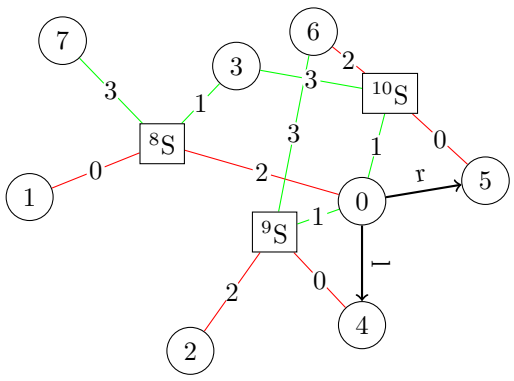

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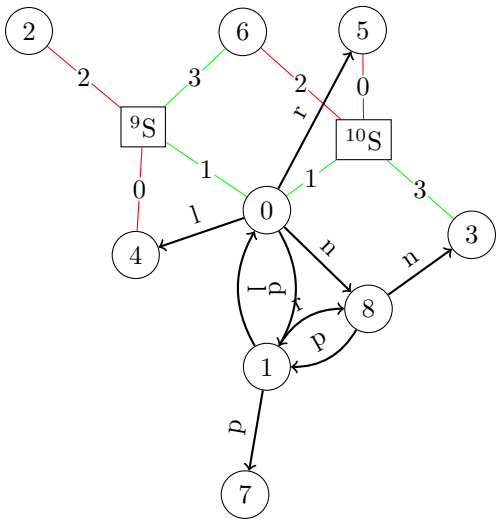

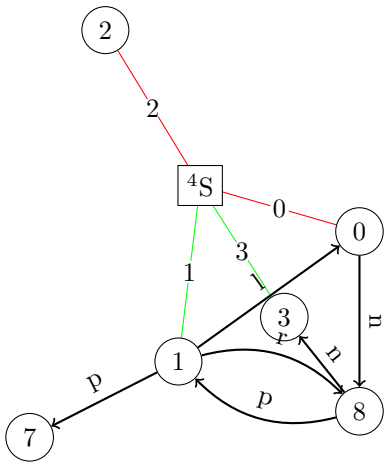


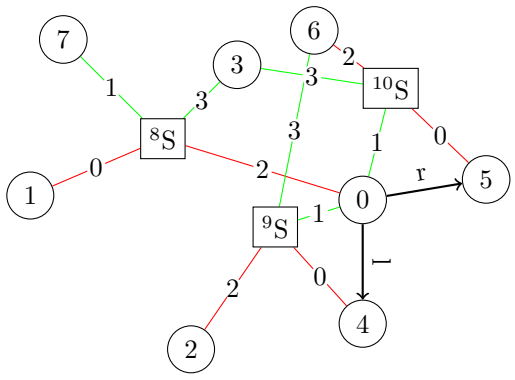


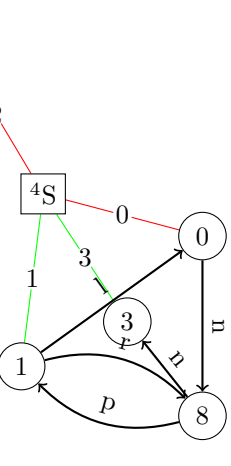


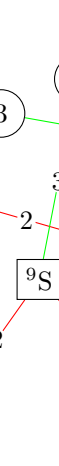

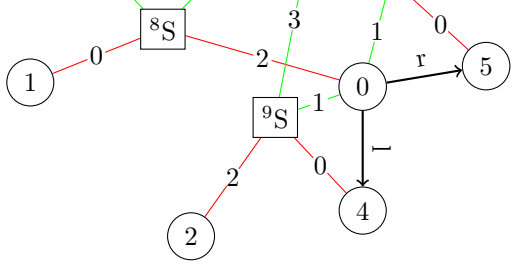

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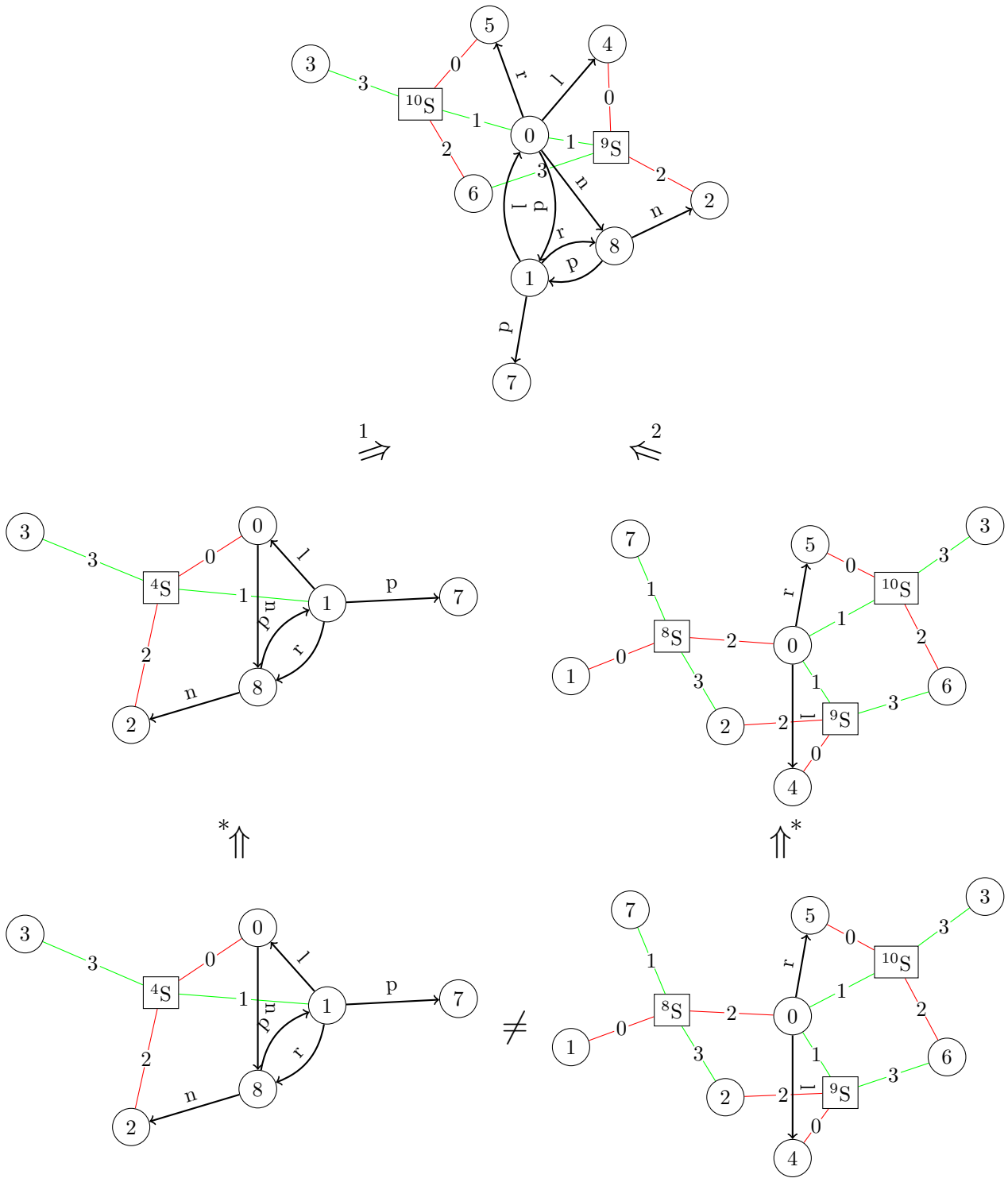

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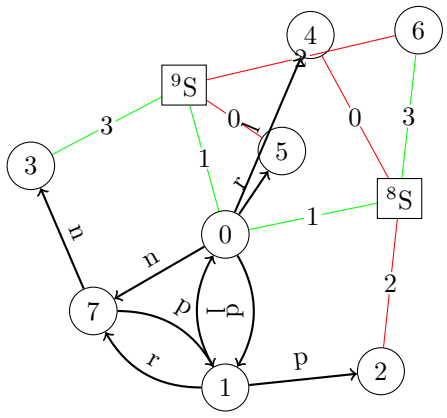


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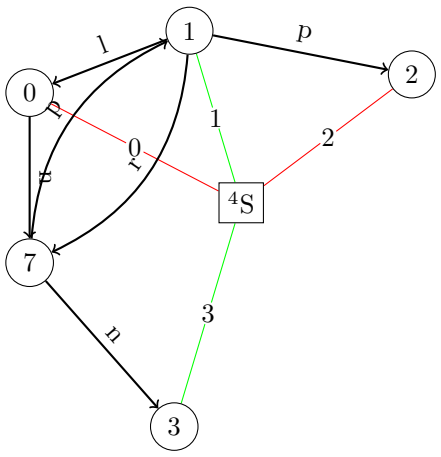


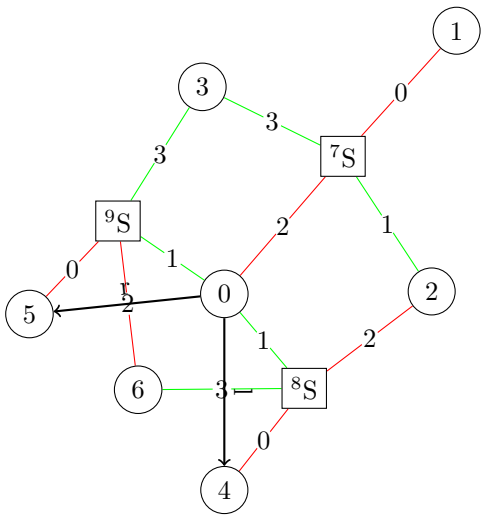


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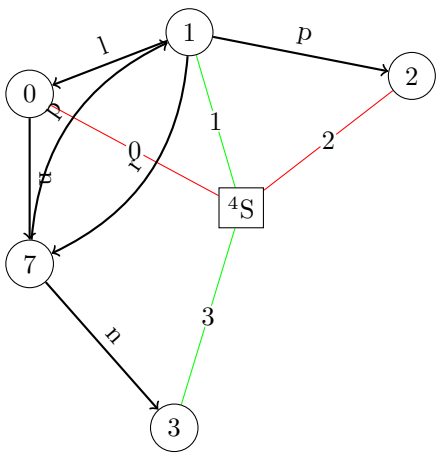


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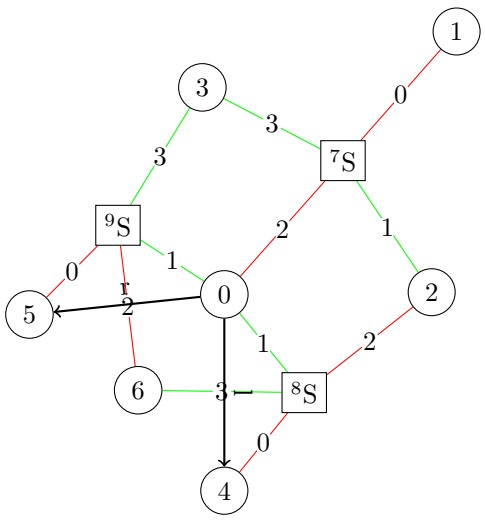
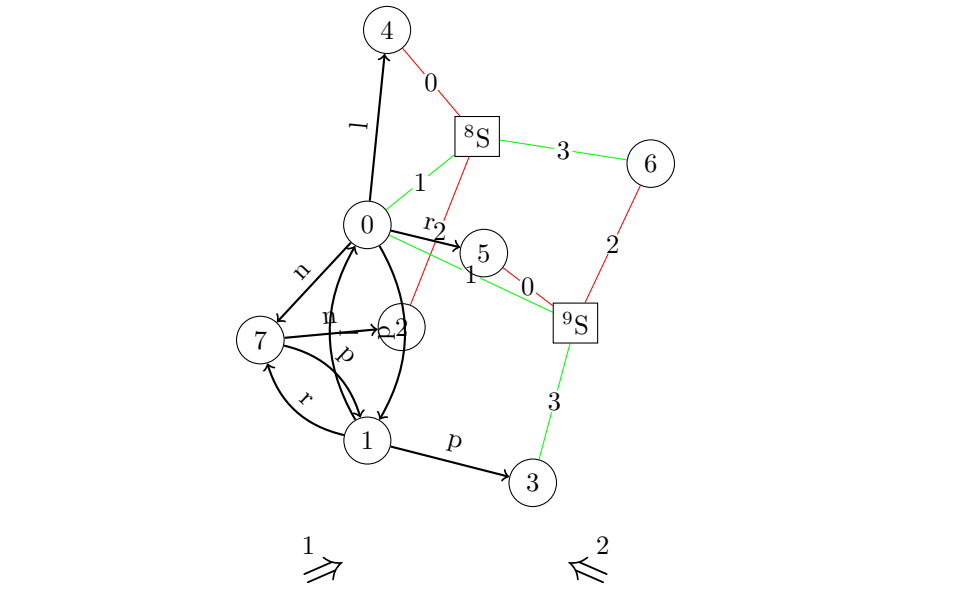
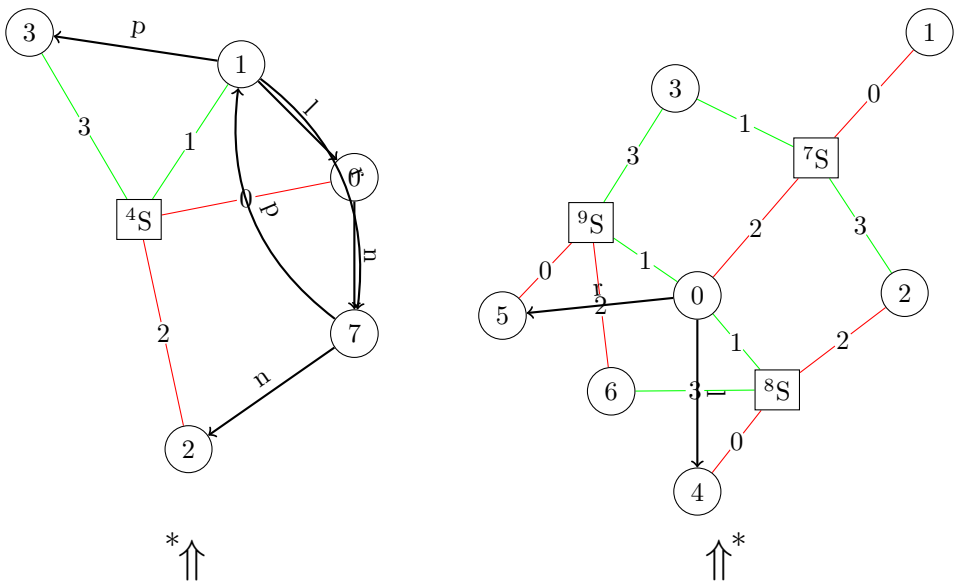
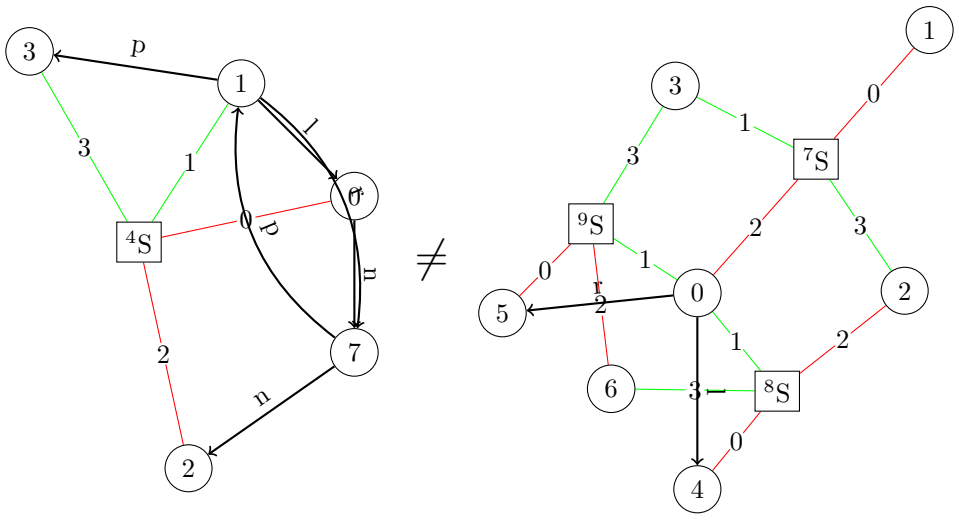


### 1.8 Critical Pair (Not Joinable)



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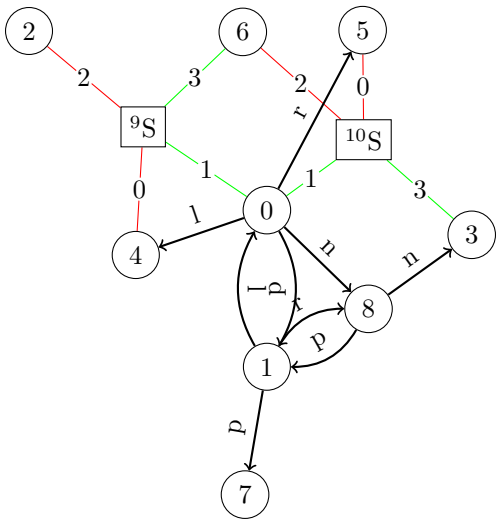


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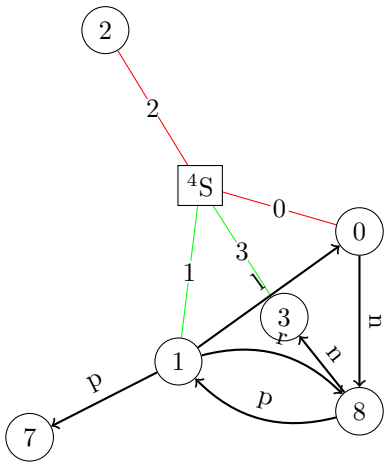


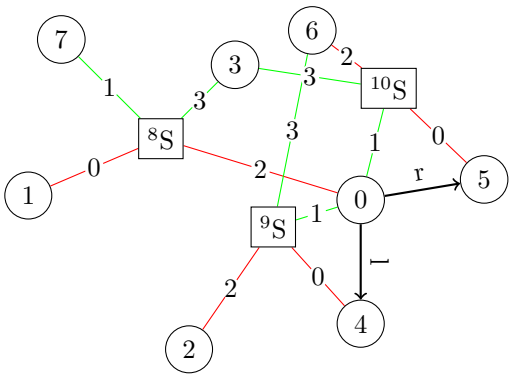


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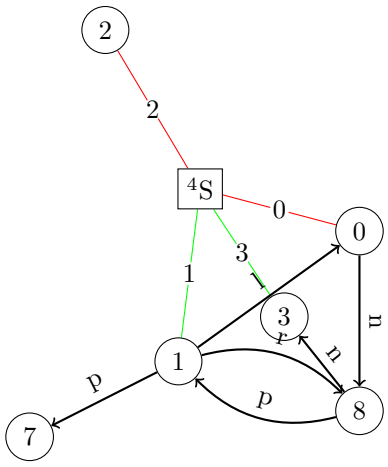


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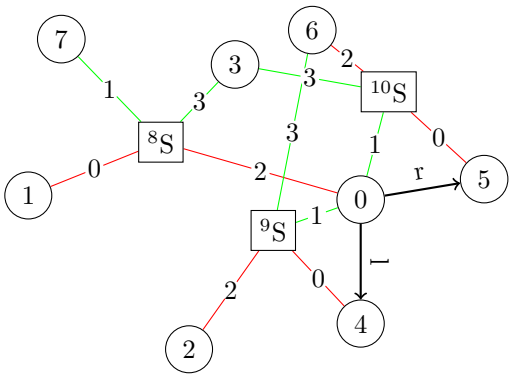
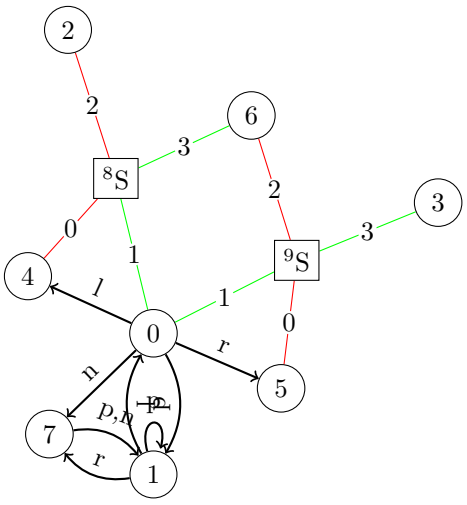
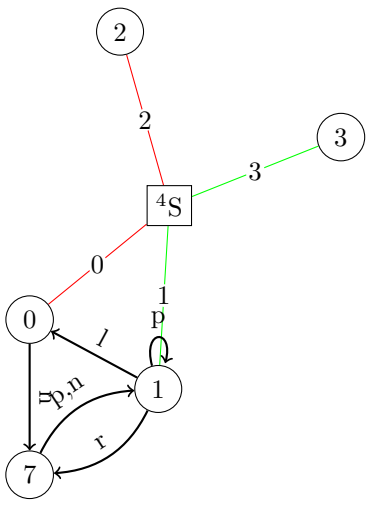


### 1.10 Critical Pair (Not Joinable)




1 ⇛ 2.1

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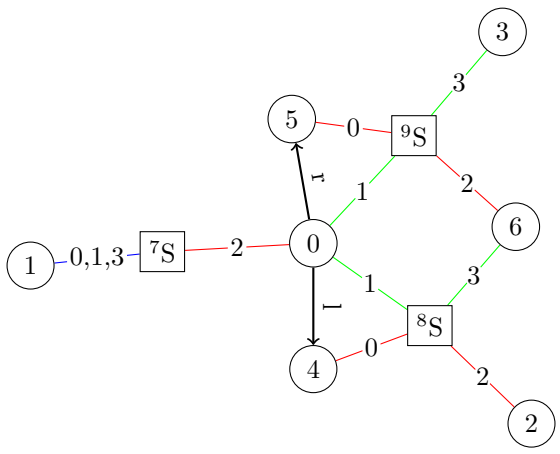


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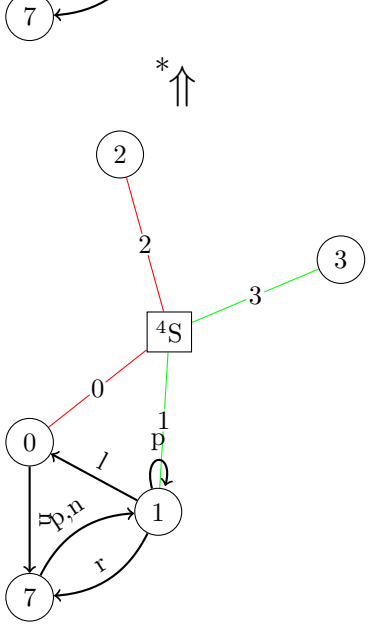


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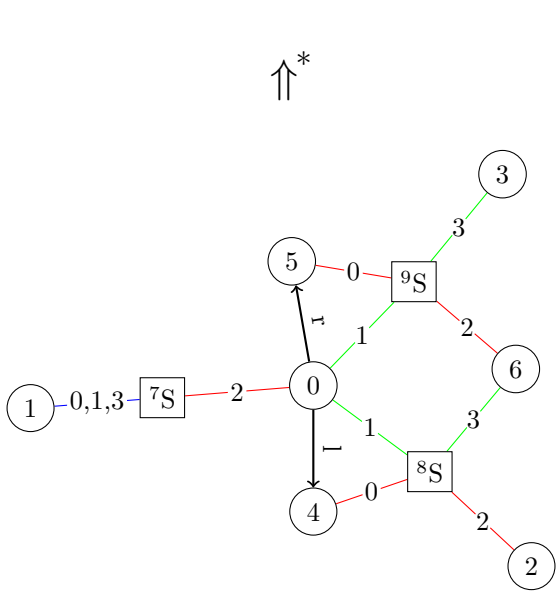
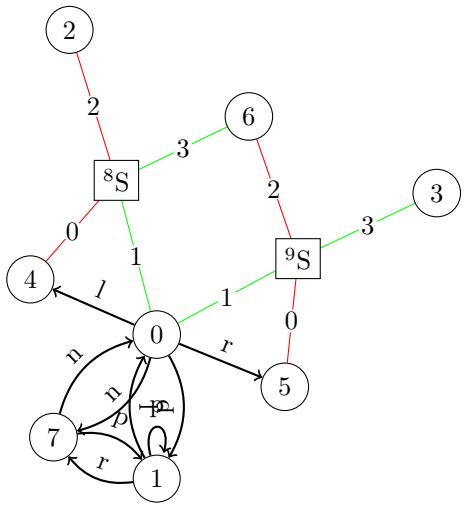
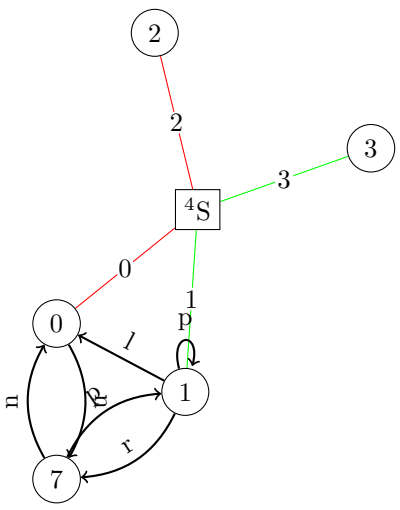
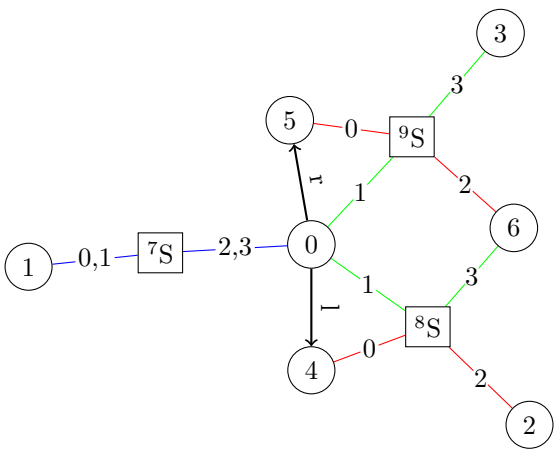


### 1.11 Critical Pair (Not Joinable)




1 2.2

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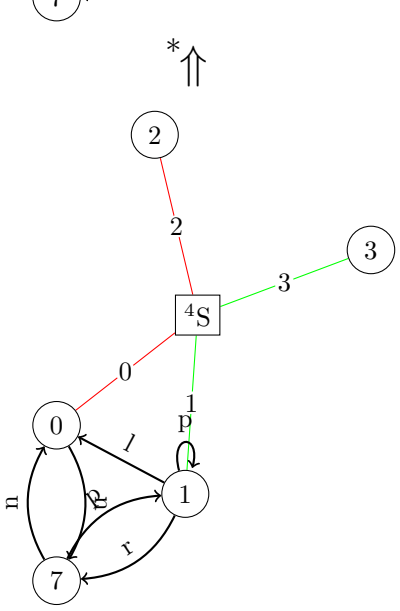


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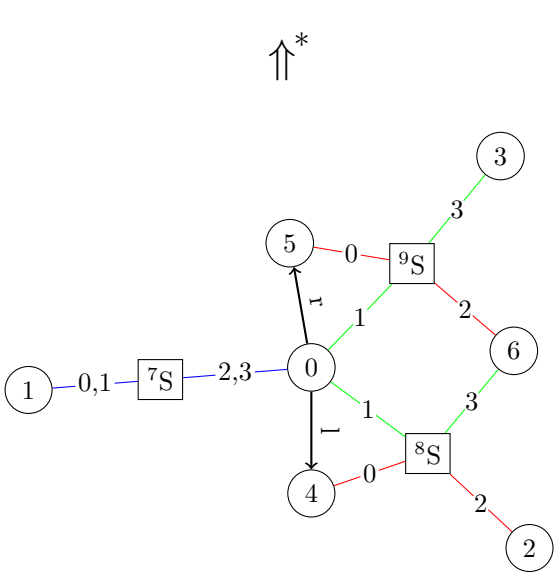
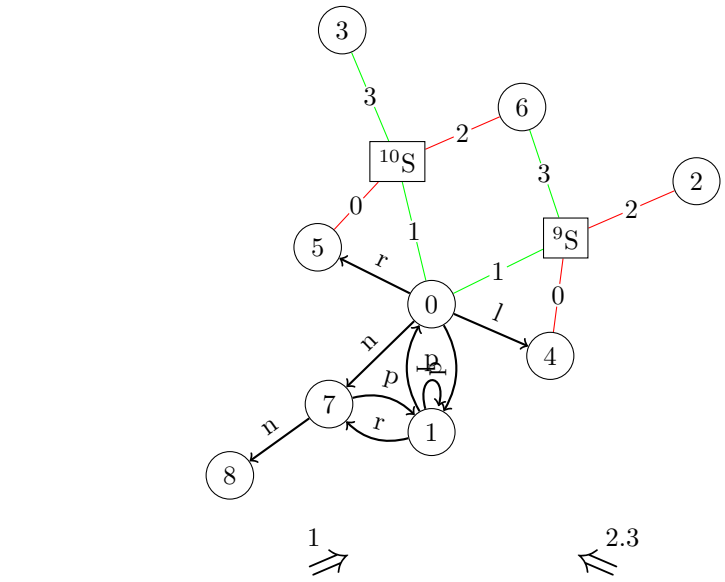
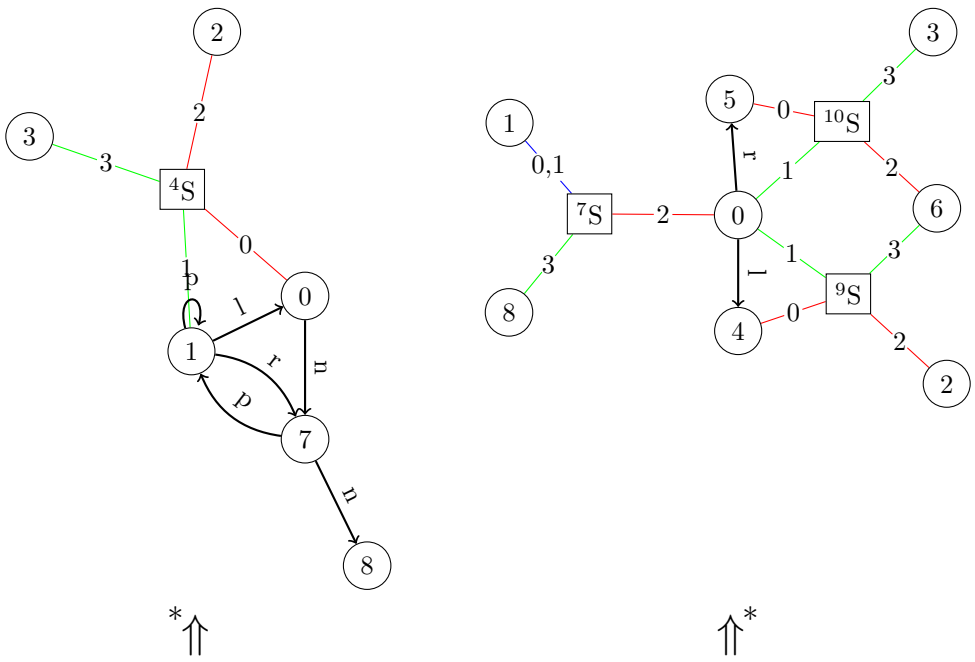


### 1.12 Critical Pair (Not Joinable)




1 ⇉ 2.3

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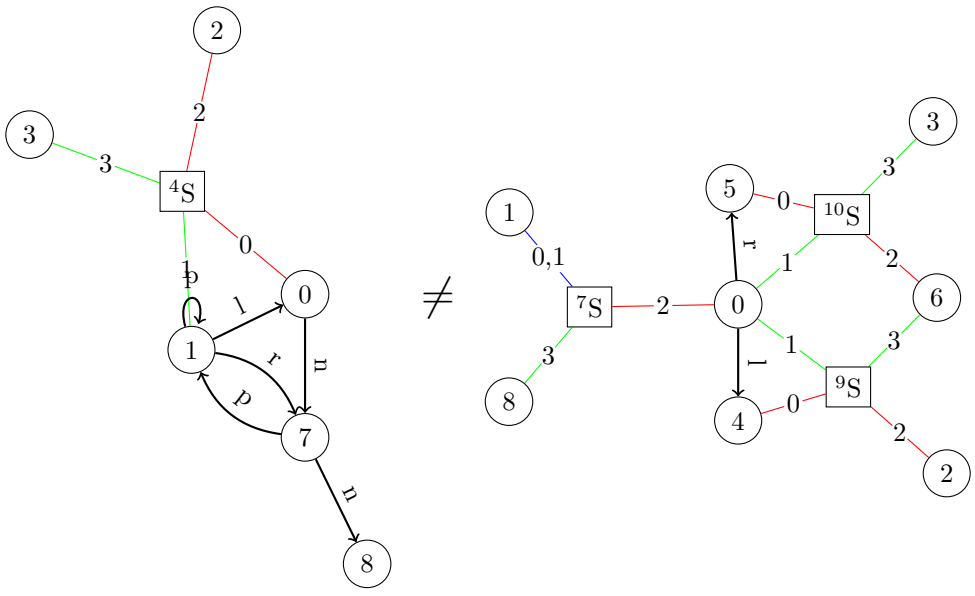
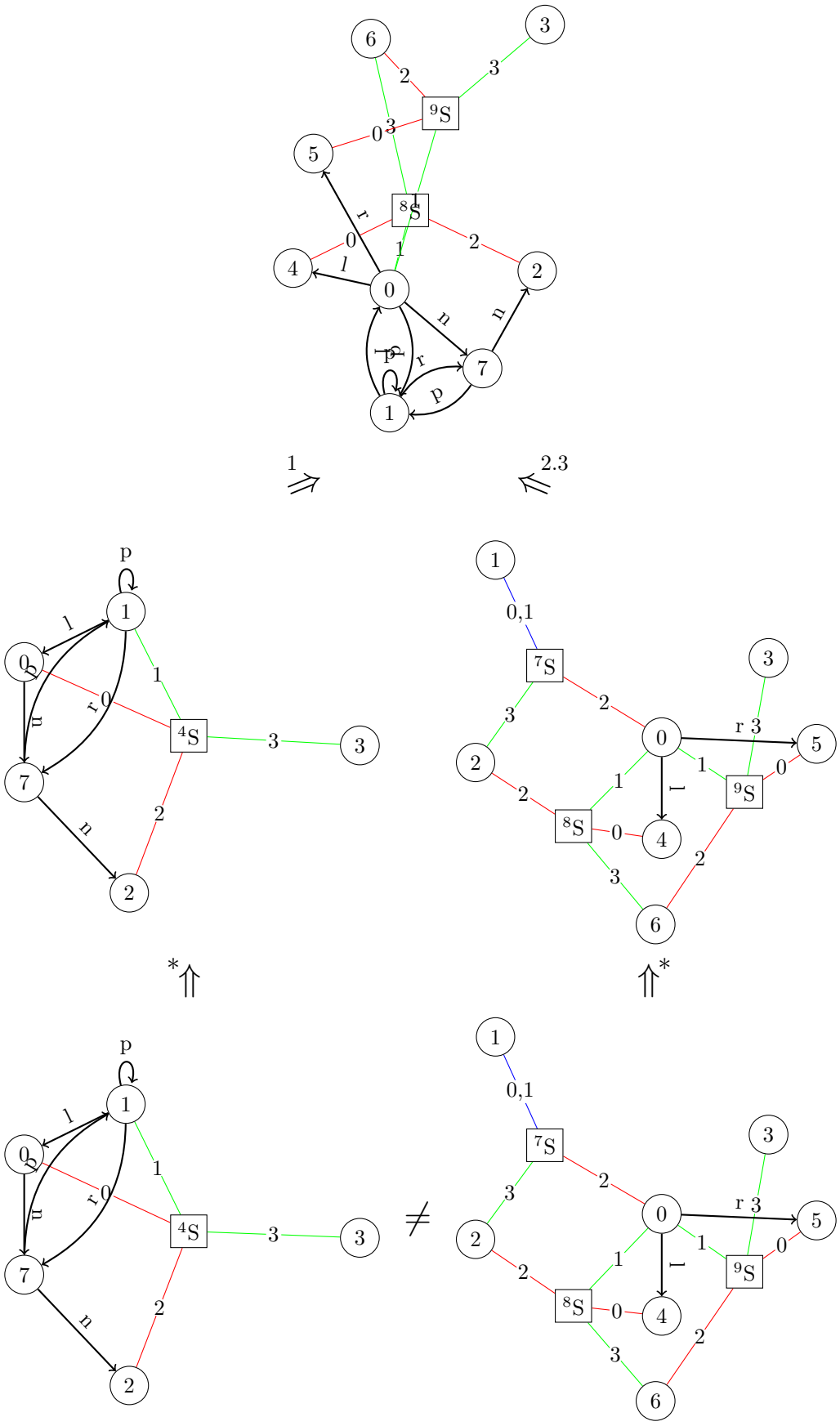
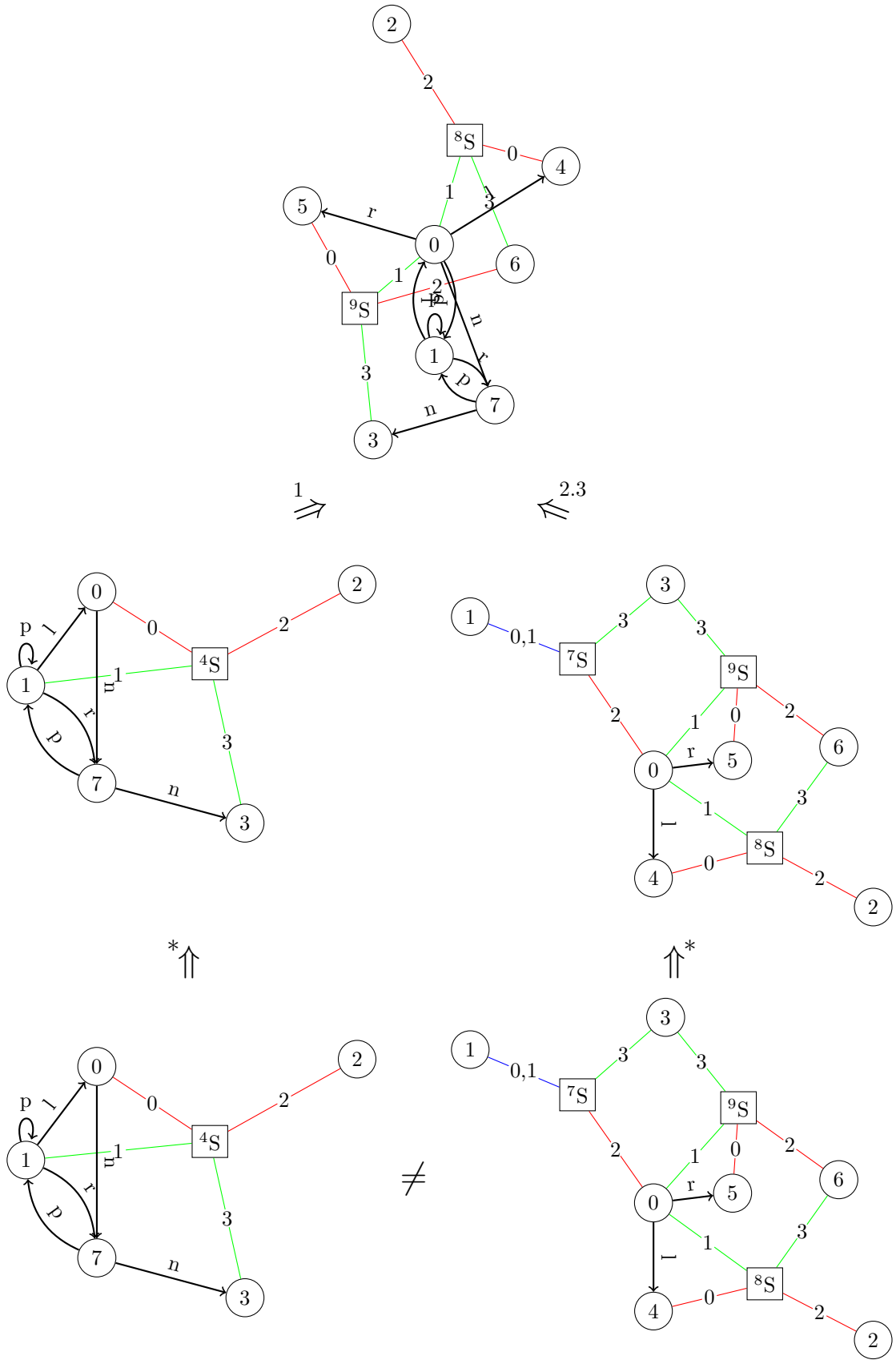


### 1.13 Critical Pair (Not Joinable)



### 1.14 Critical Pair (Not Joinable)

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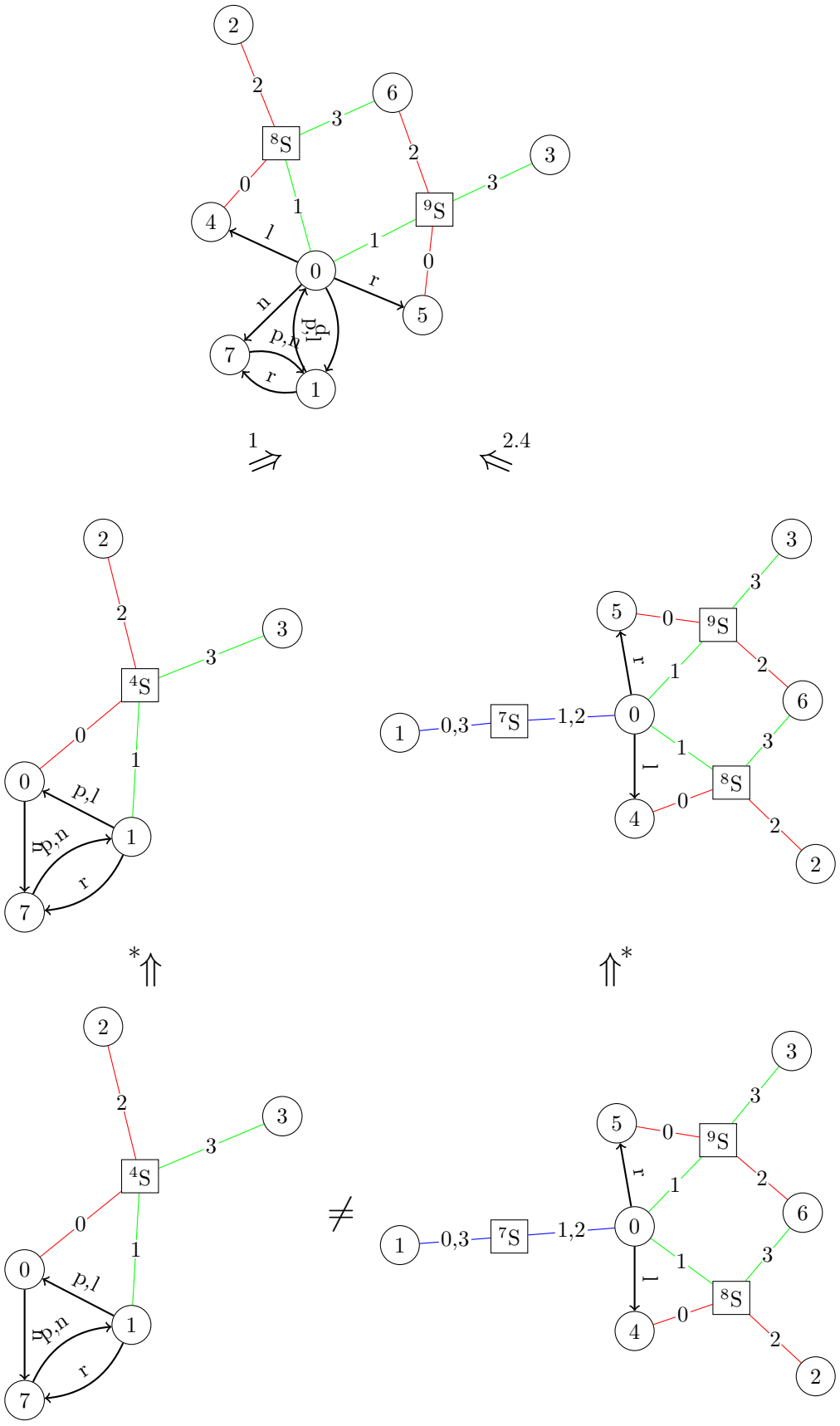
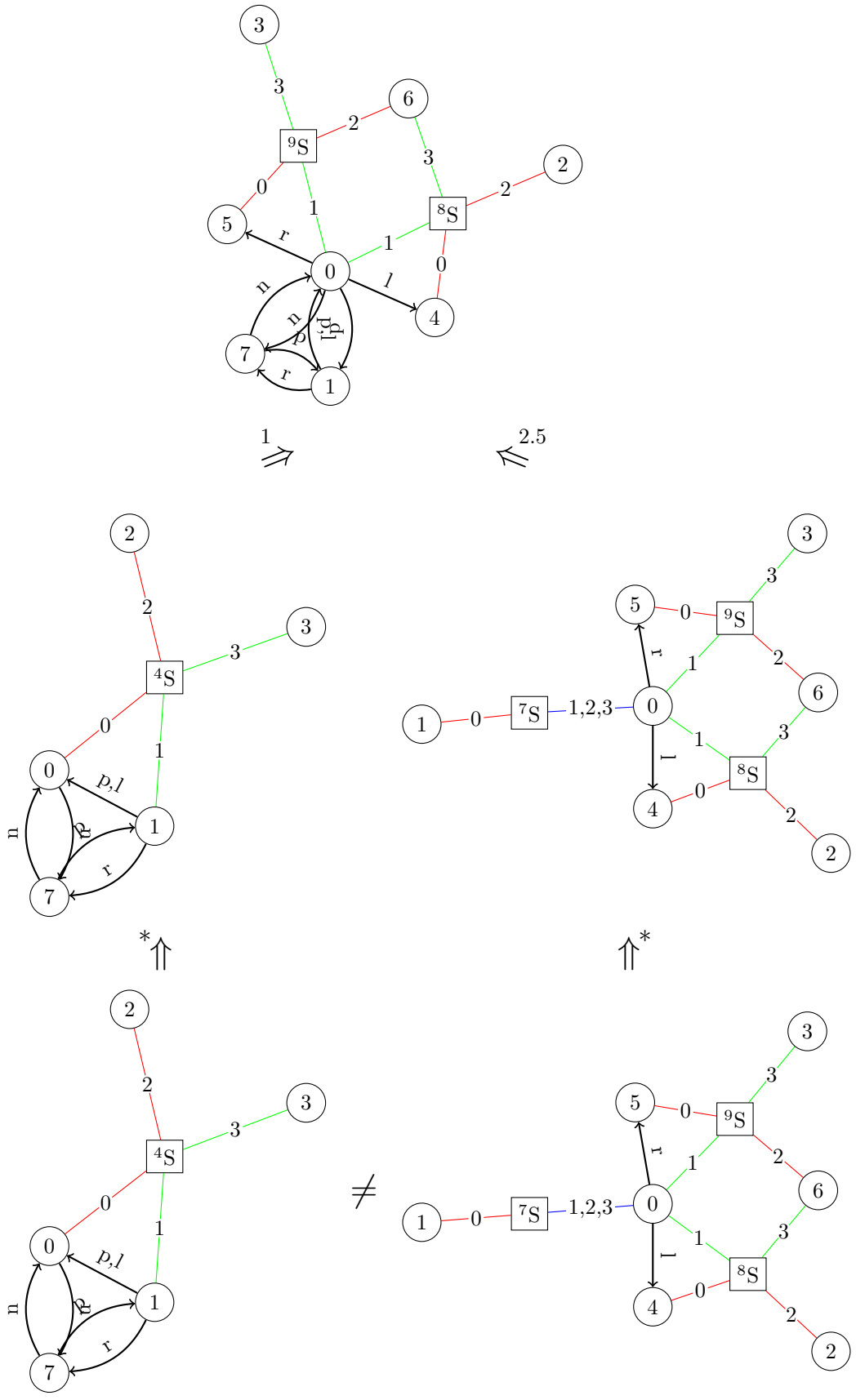
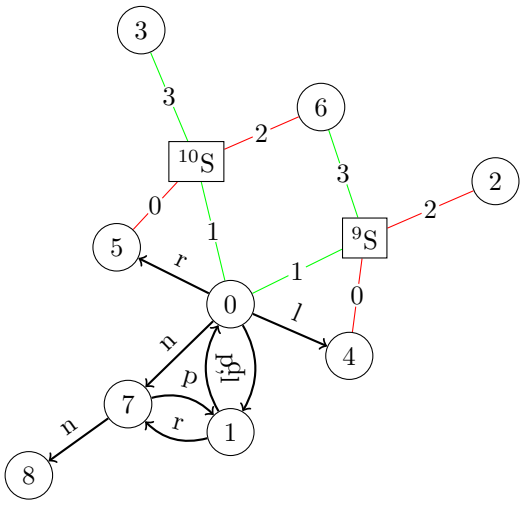
### 1.15 Critical Pair (Not Joinable)



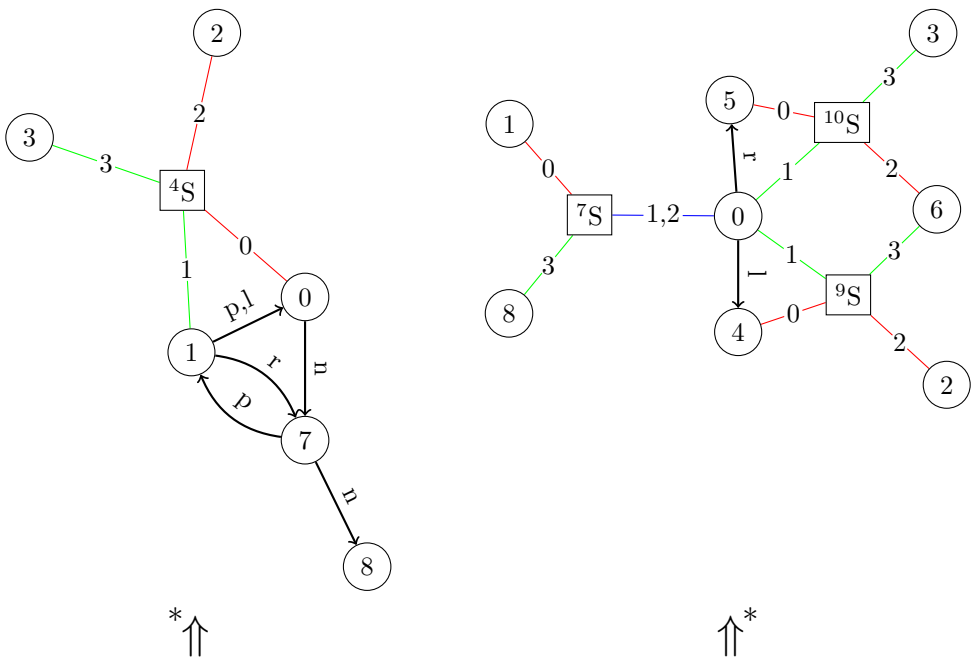
### 1.16 Critical Pair (Not Joinable)



### 1.17 Critical Pair (Not Joinable)




1 ⇒ 2.6

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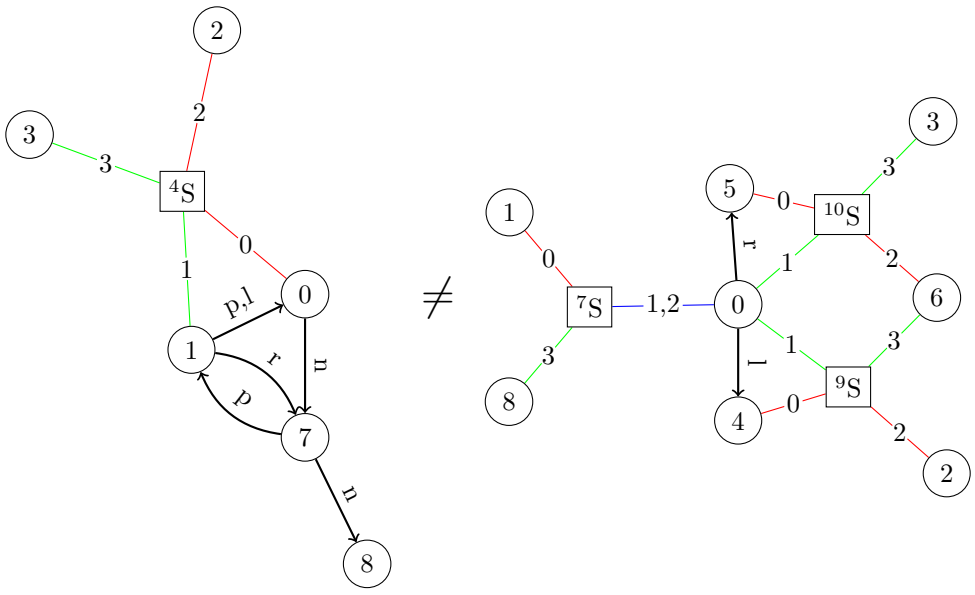
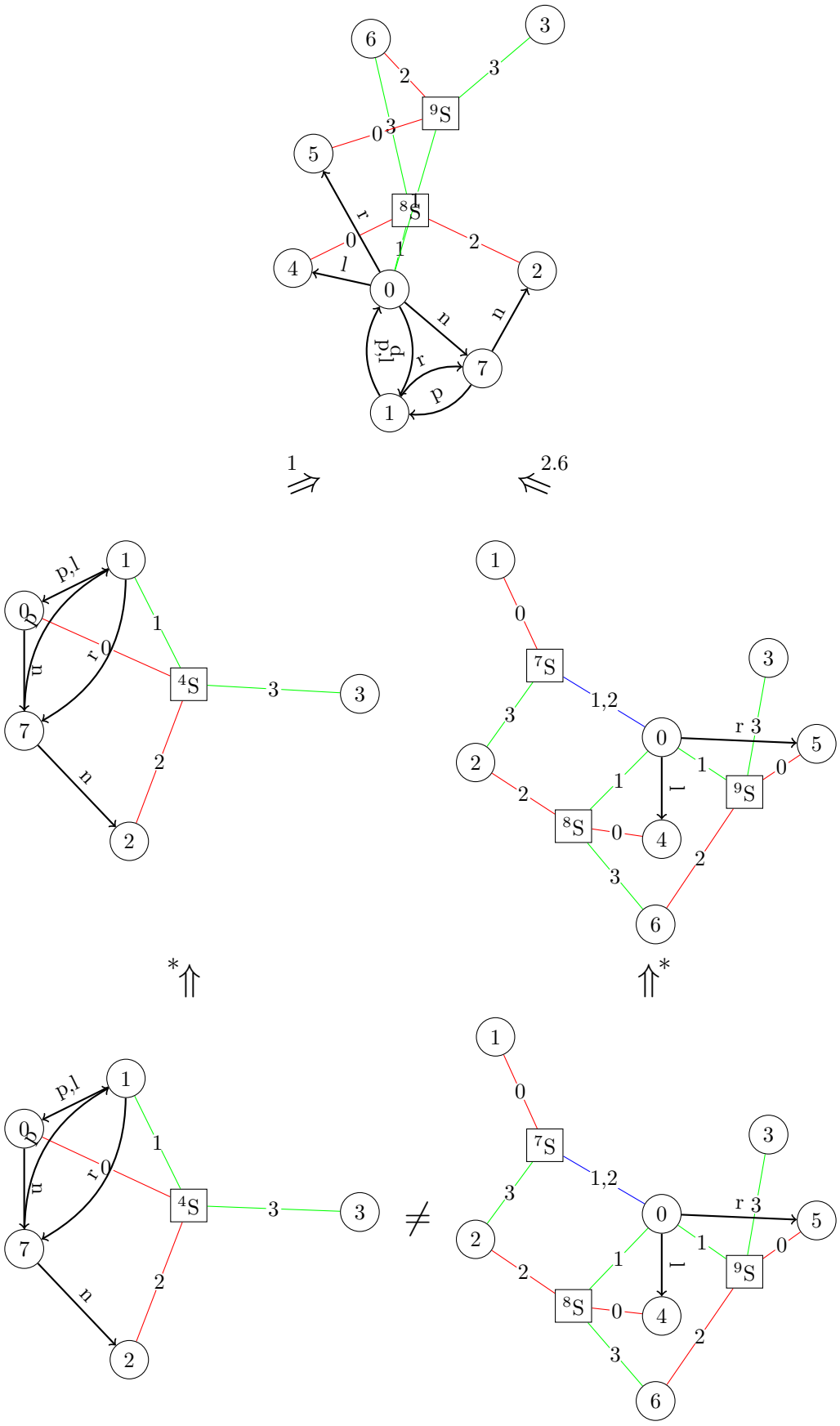
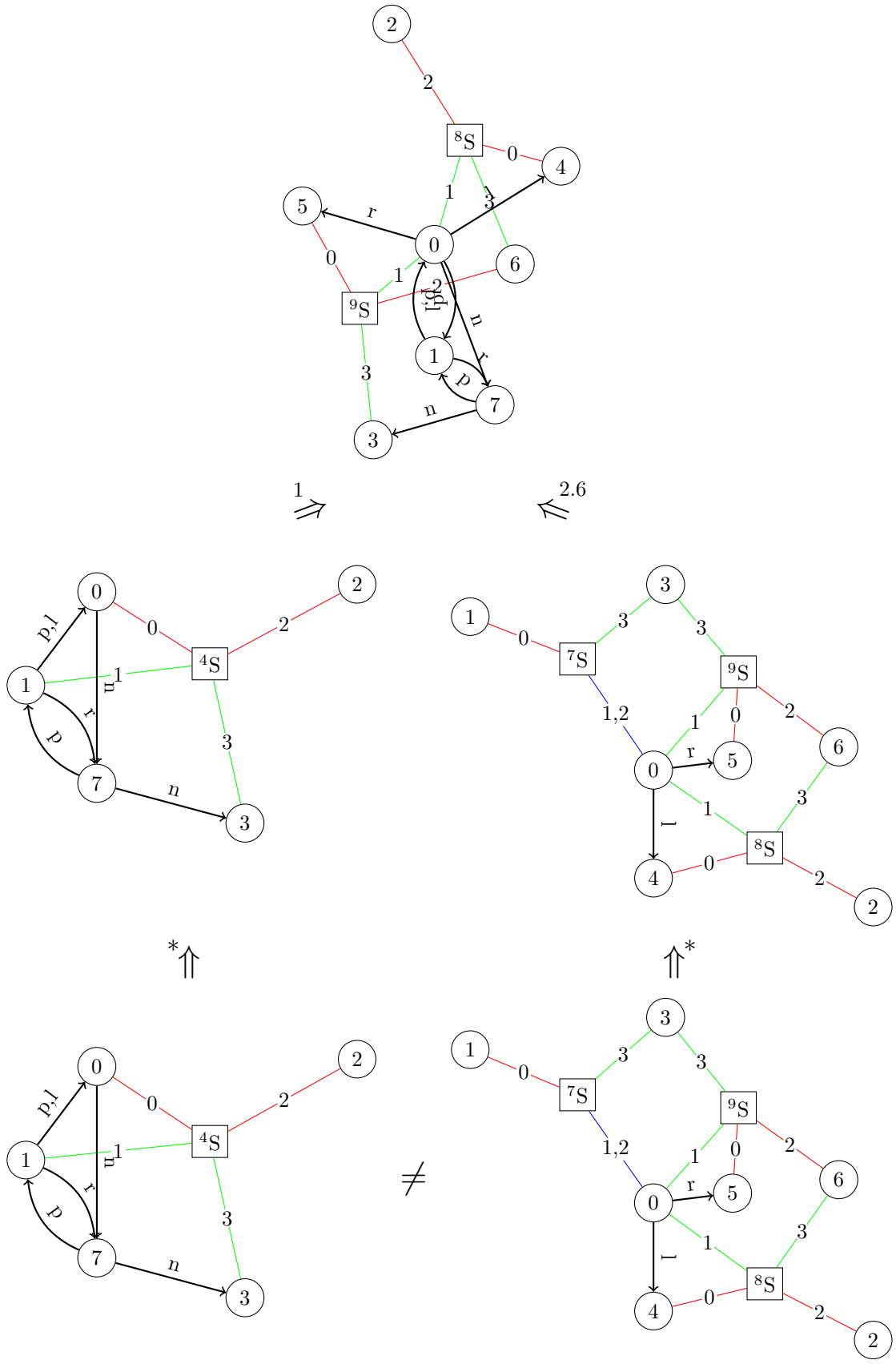


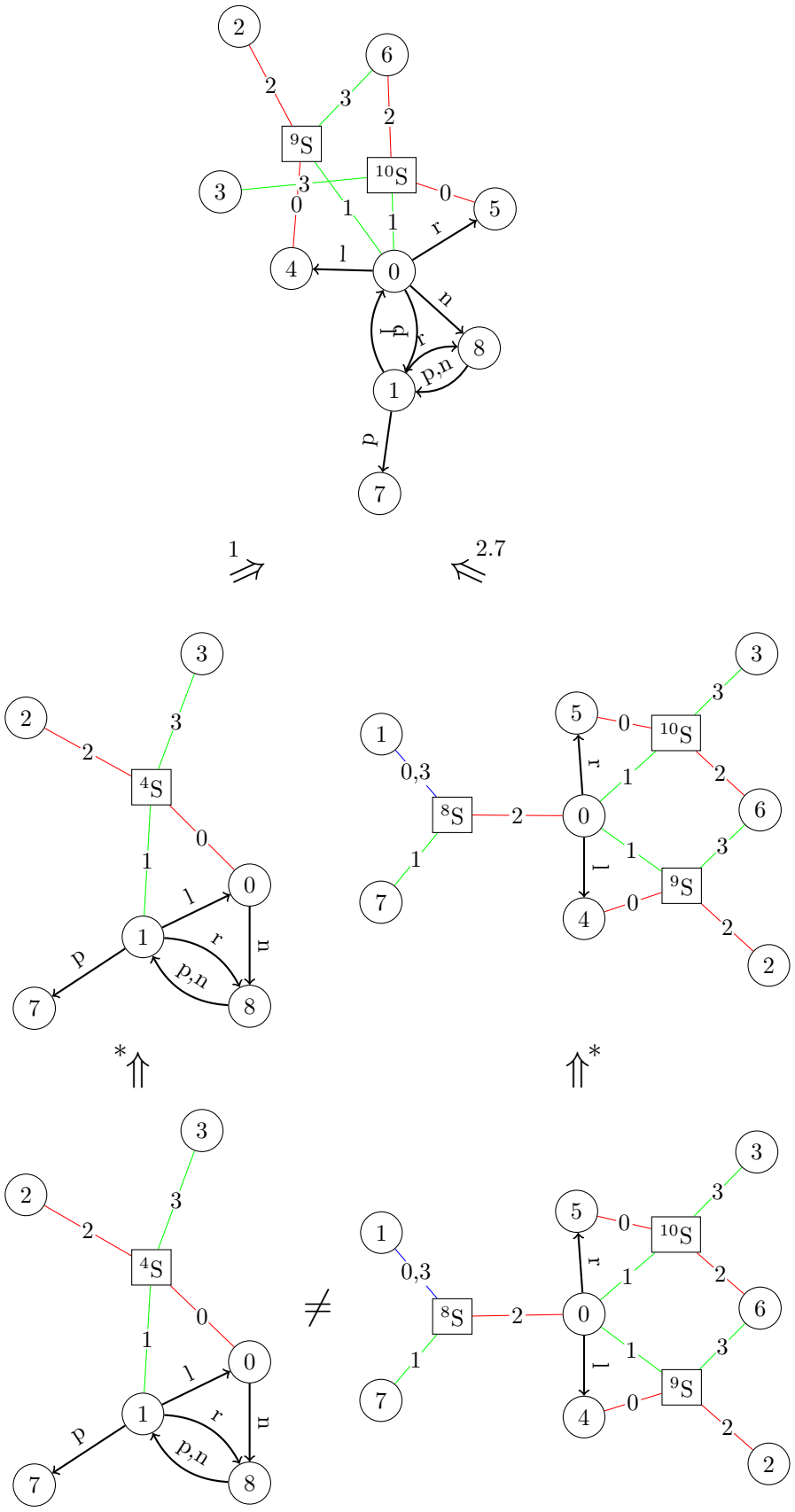
### 1.18 Critical Pair (Not Joinable)



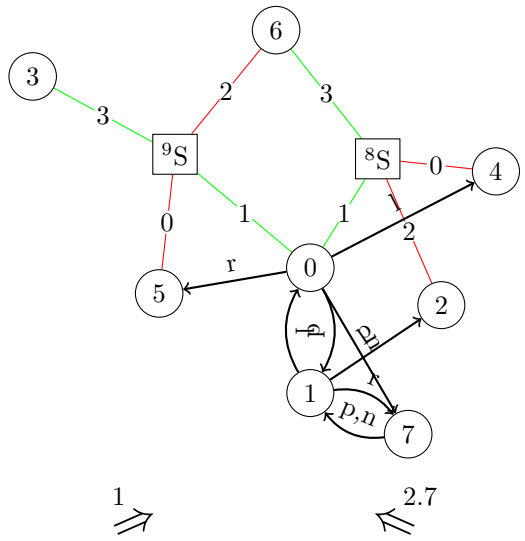
### 1.19 Critical Pair (Not Joinable)



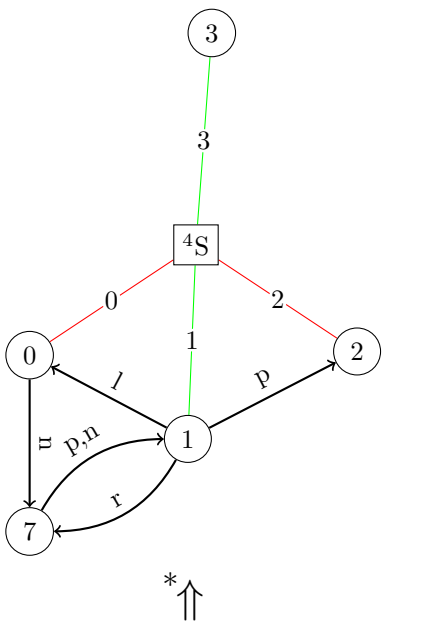
## 1.20 Critical Pair (Not Joinable)

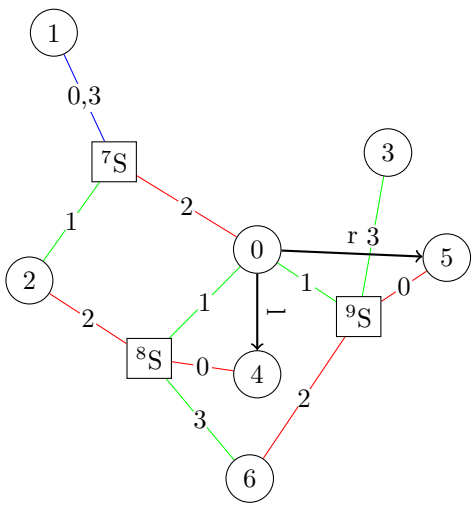


## 1.21 Critical Pair (Not Joinable)




1 ⇛ 2.7 ⇚

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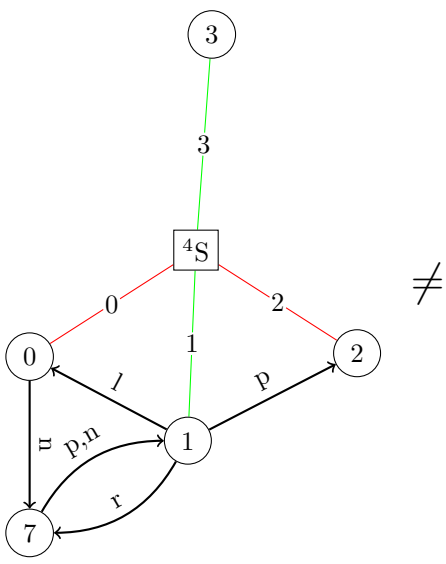


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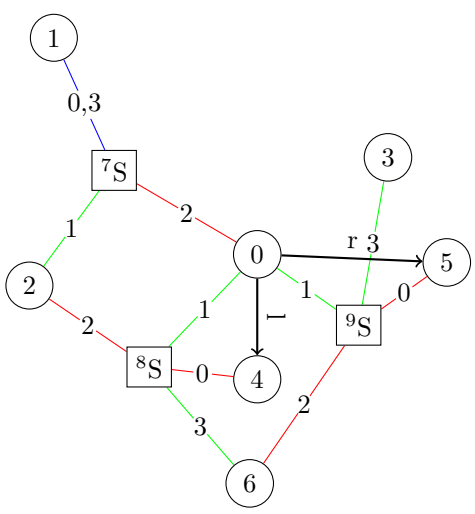
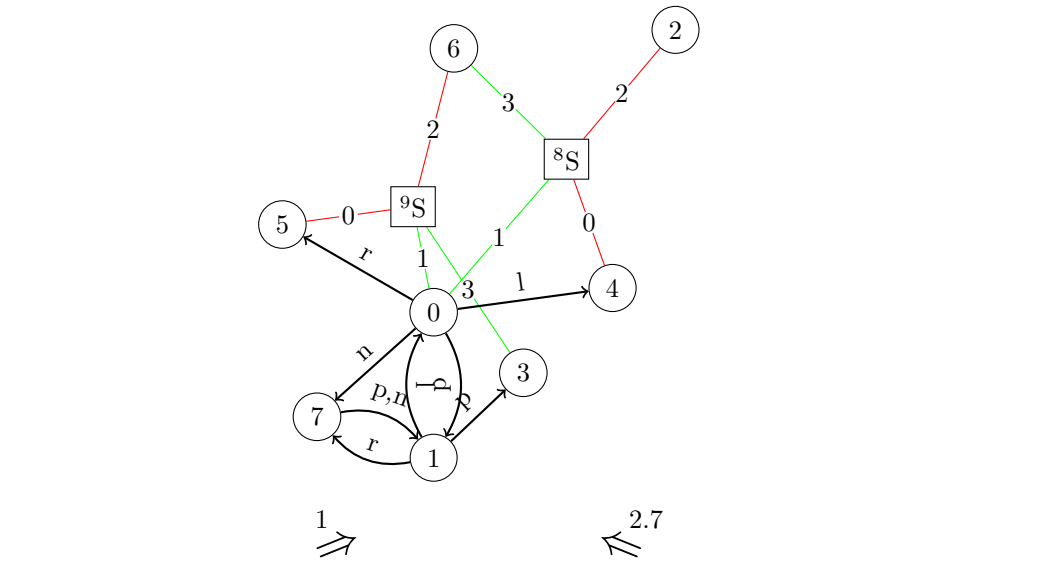
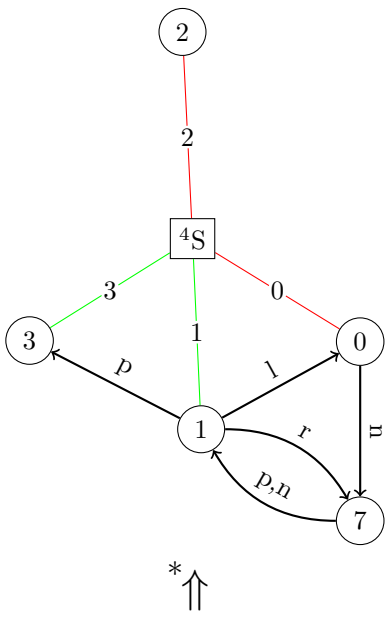
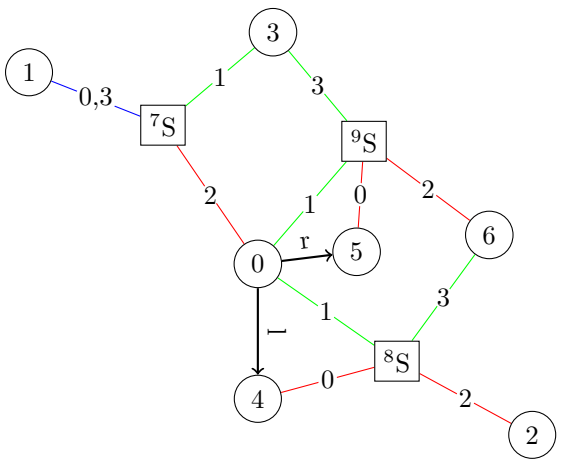


## 1.22 Critical Pair (Not Joinable)




1 ≫ ≪ 2.7

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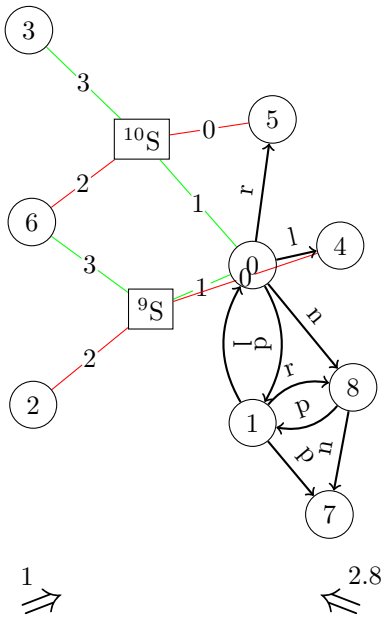
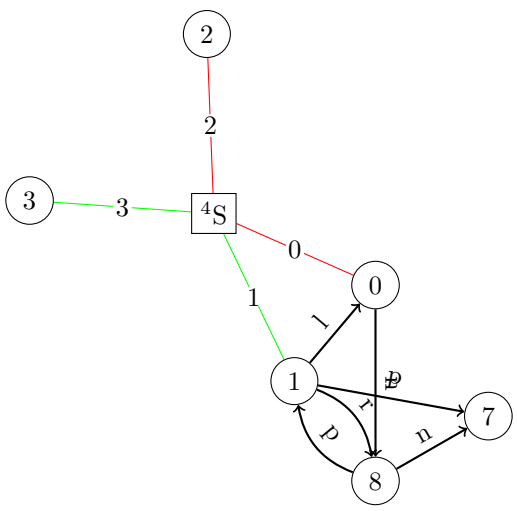
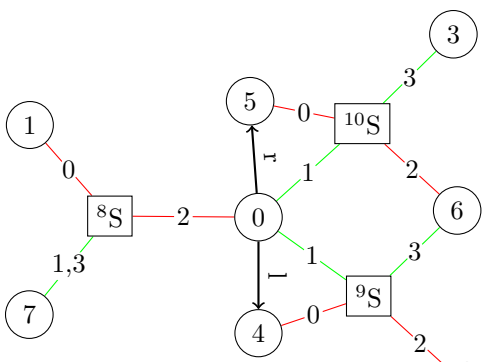
### 1.23 Critical Pair (Not Joinable)




1 ⇉ 2.8 ⇇

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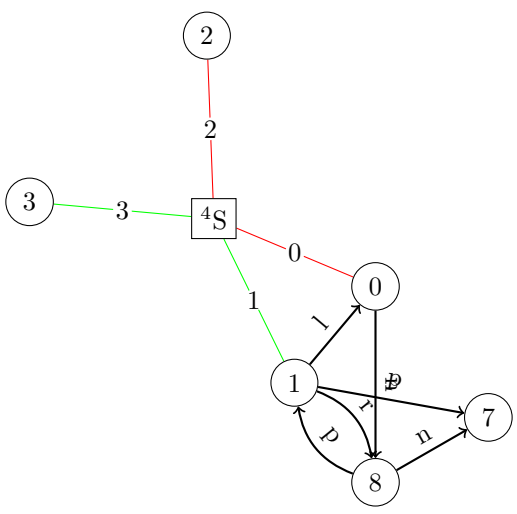


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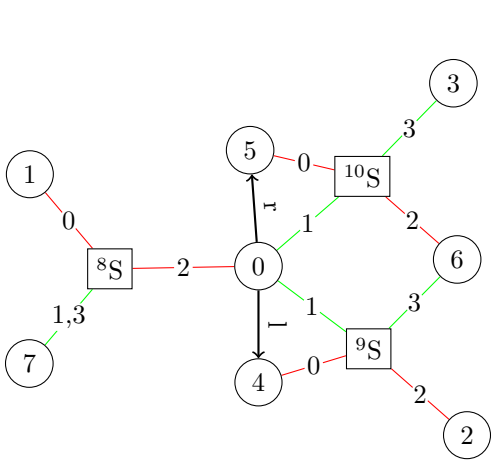
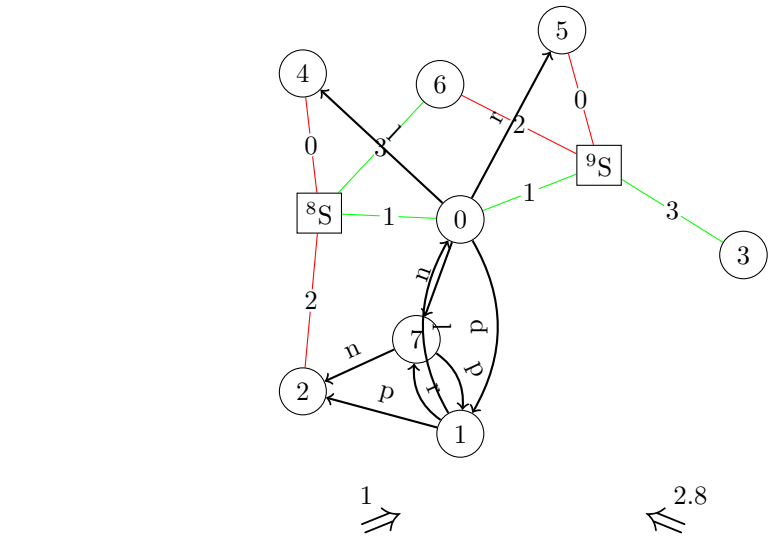
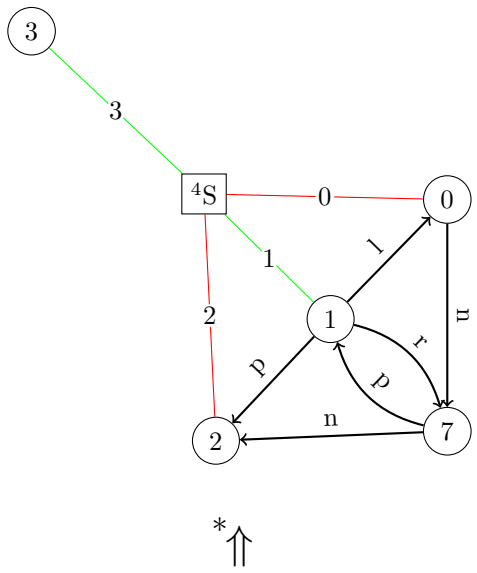


### 1.24 Critical Pair (Not Joinable)




1 ≫ ≪ 2.8

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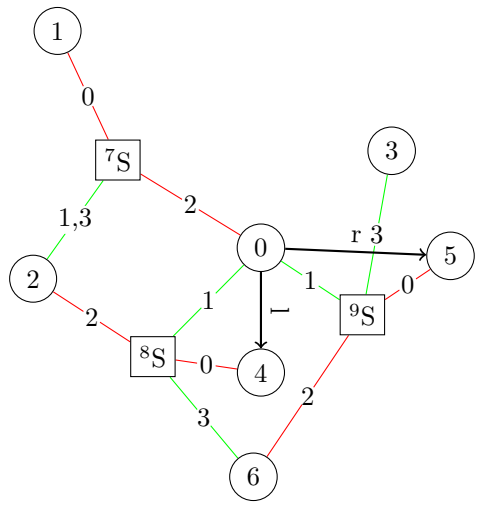


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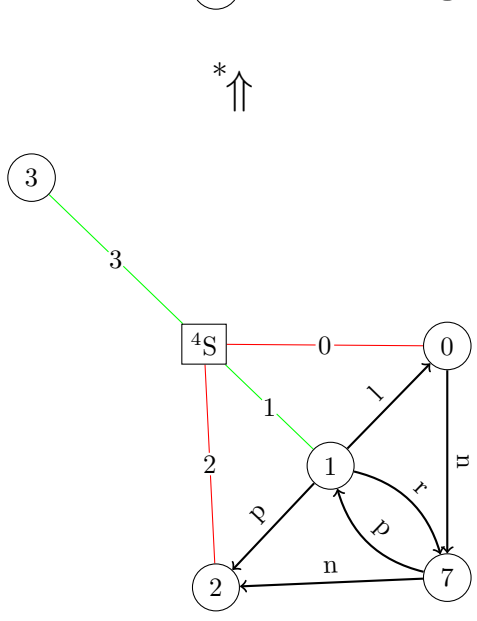


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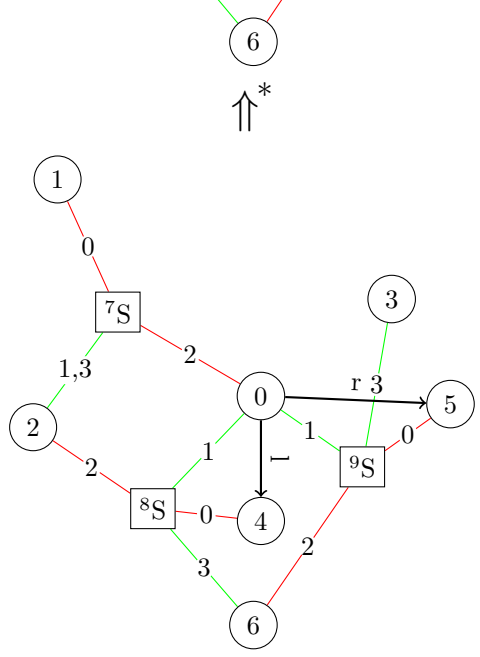
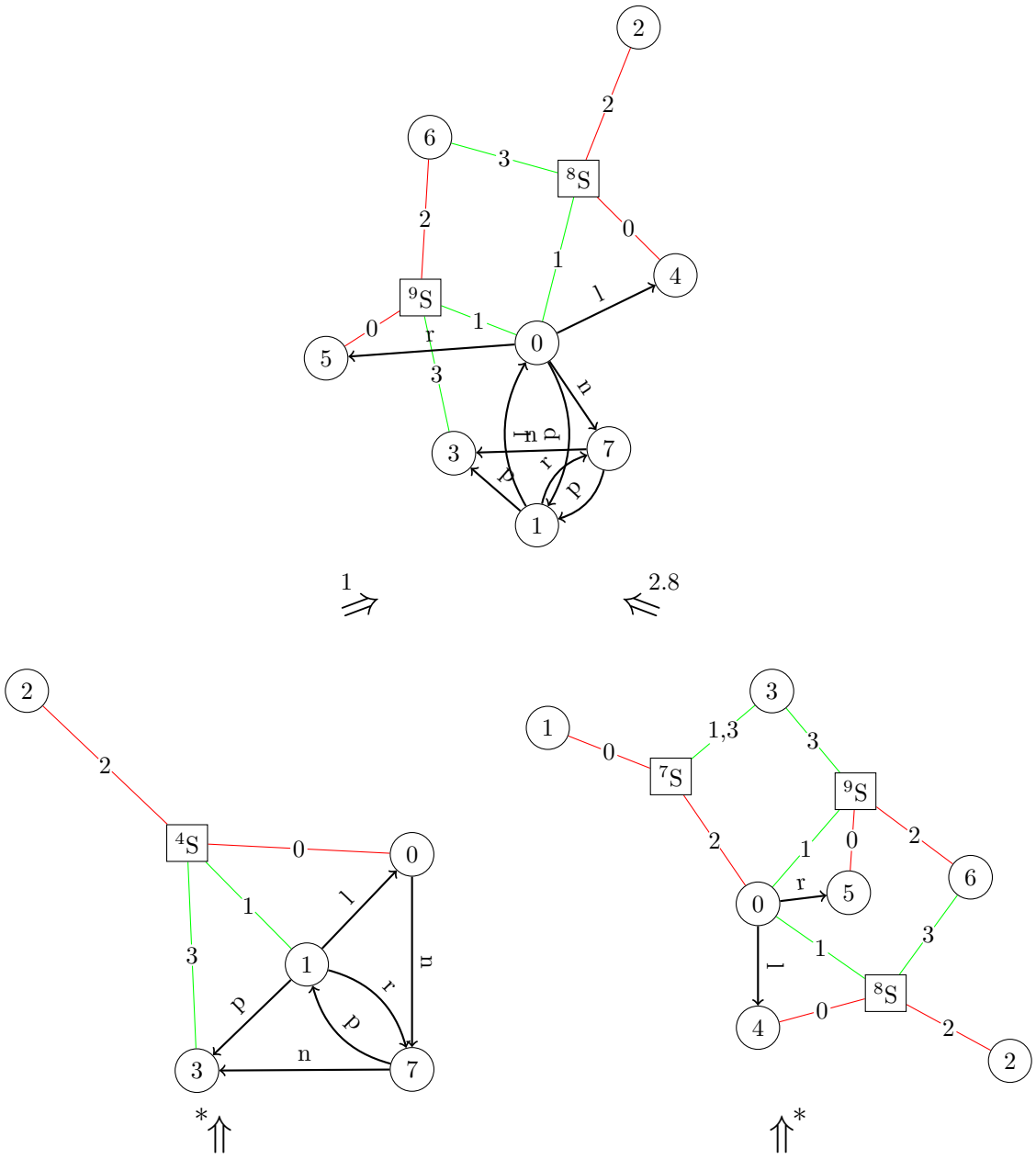
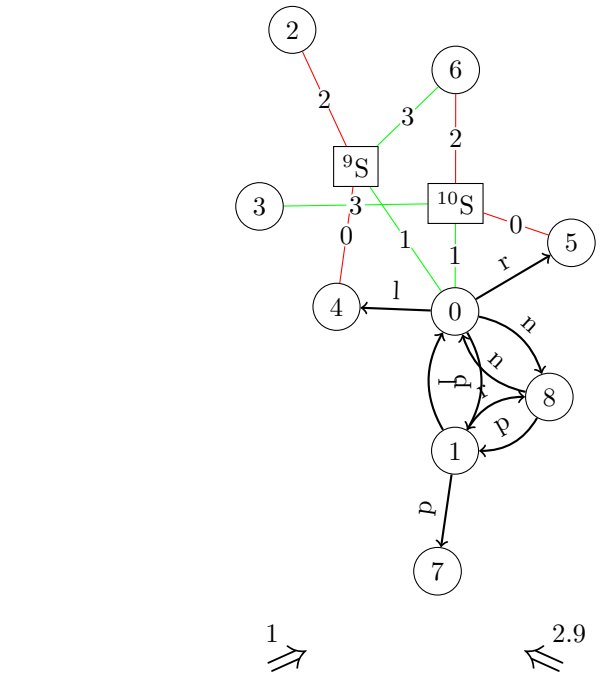


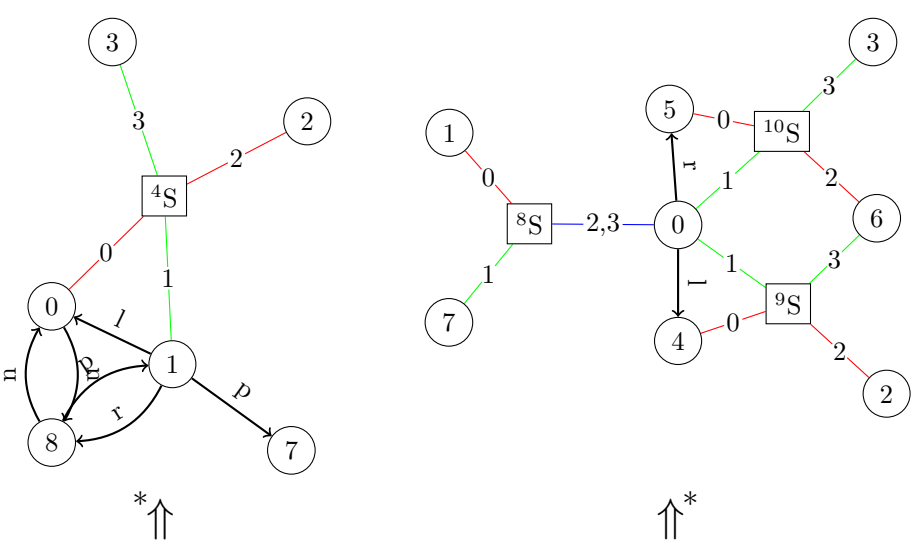
### 1.25 Critical Pair (Not Joinable)



## 1.26 Critical Pair (Not Joinable)




1 ⇉ 2.9 ⇈

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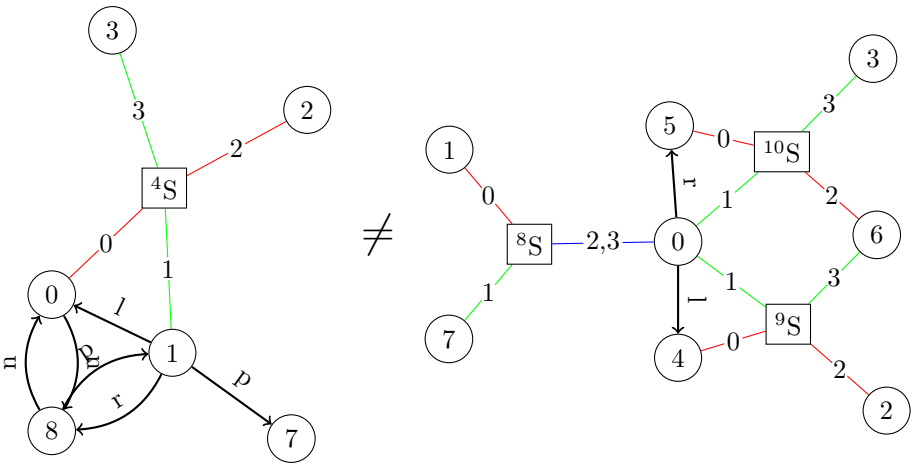
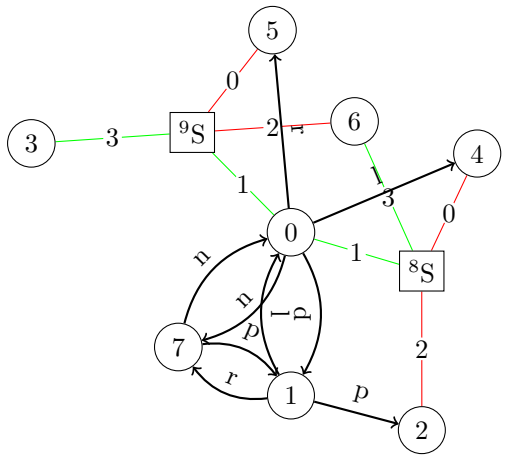
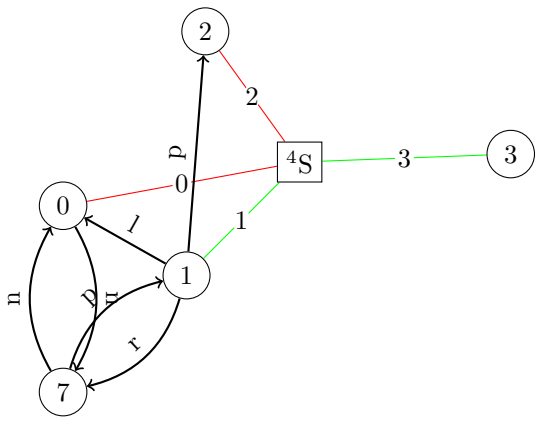
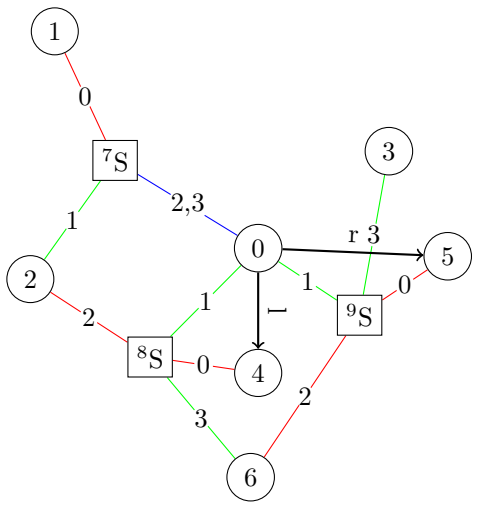


## 1.27 Critical Pair (Not Joinable)




1 2.9

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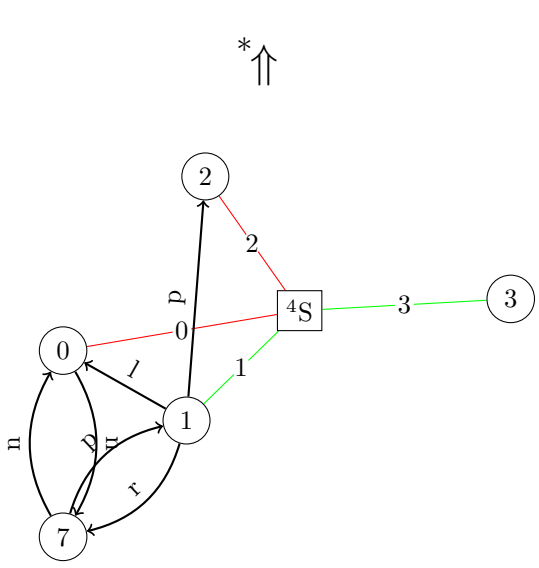


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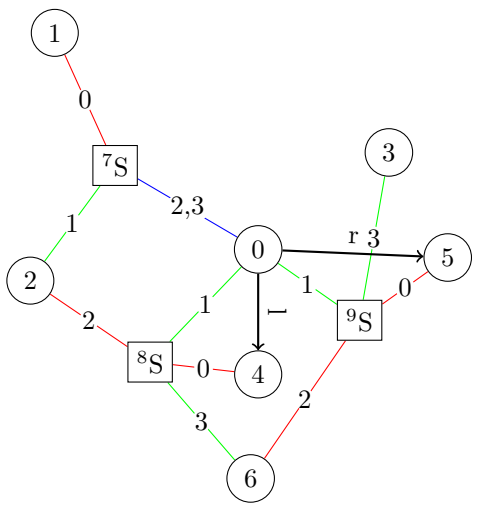
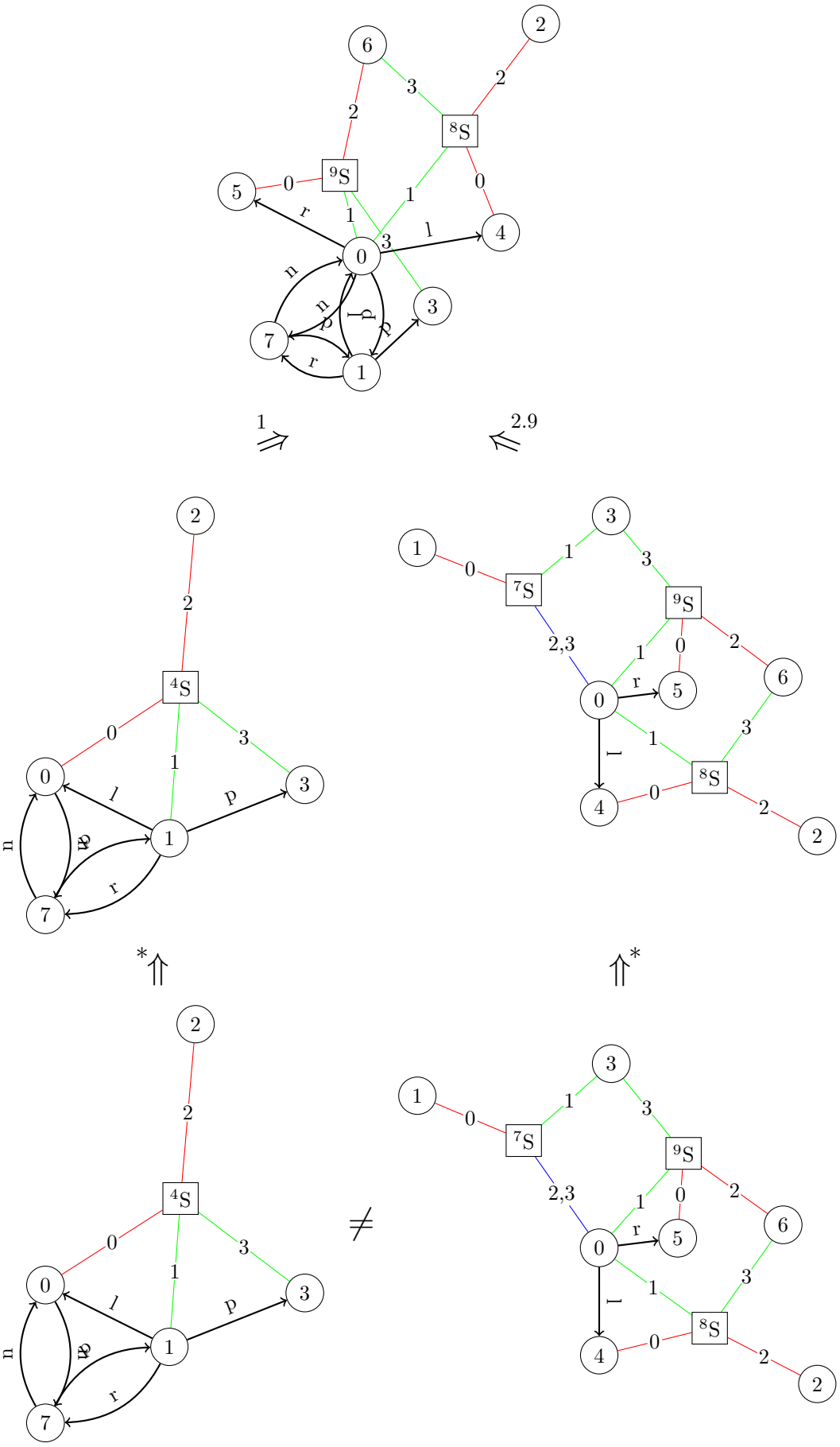
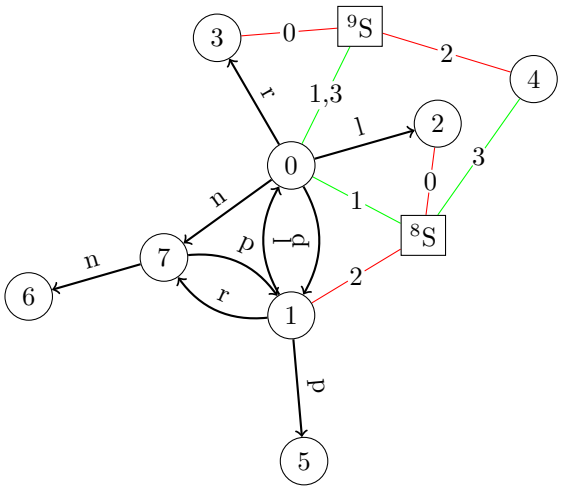


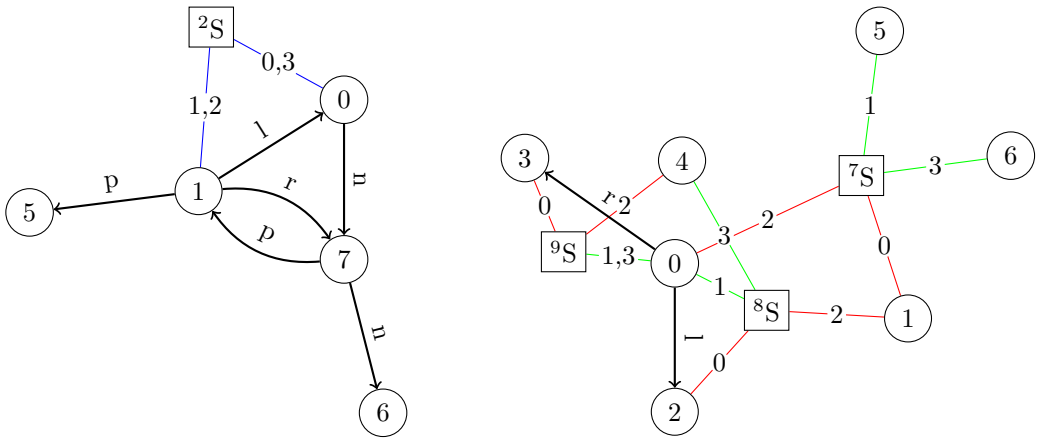
### 1.28 Critical Pair (Not Joinable)



## 1.29 Critical Pair (Not Joinable)




1.4 ⇛ ⇚ 2







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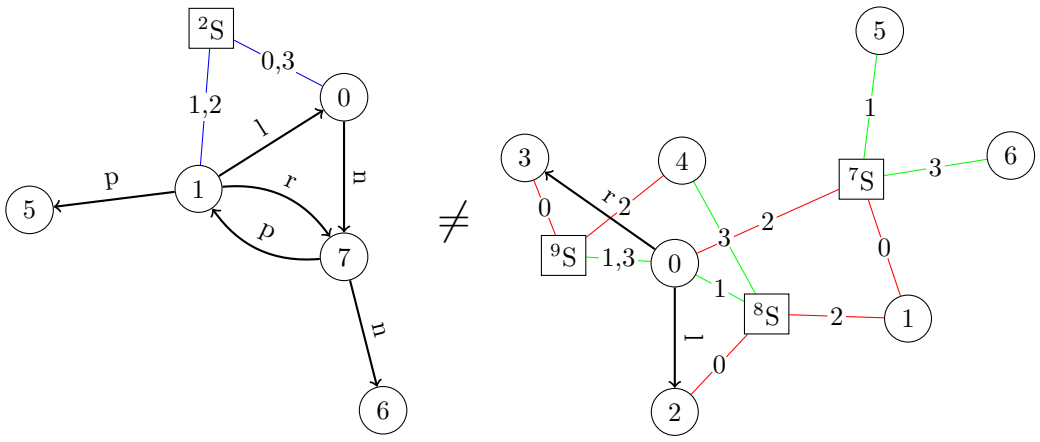


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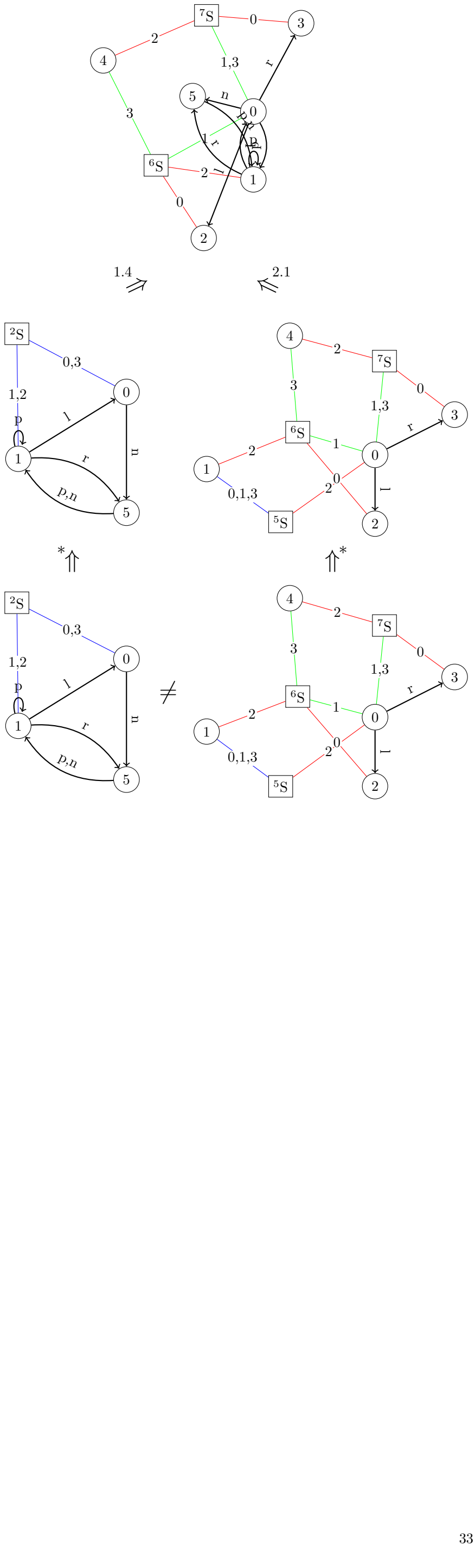
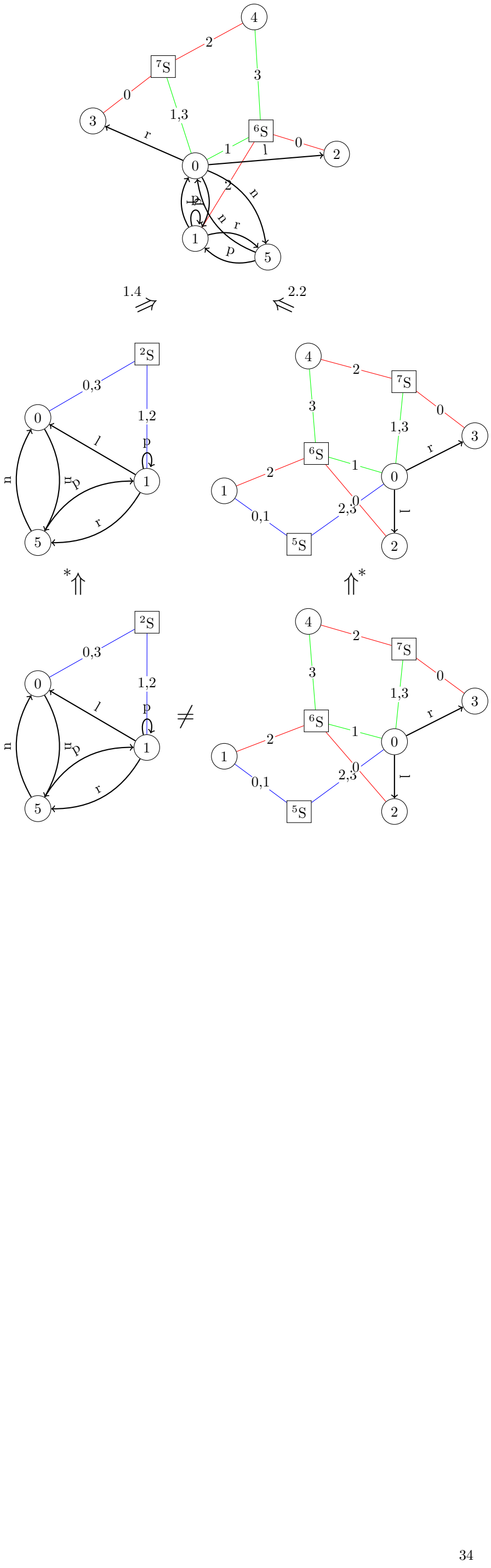
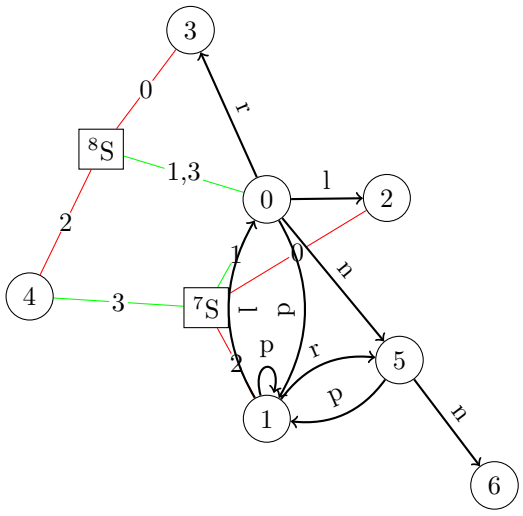
## 1.30 Critical Pair (Not Joinable)



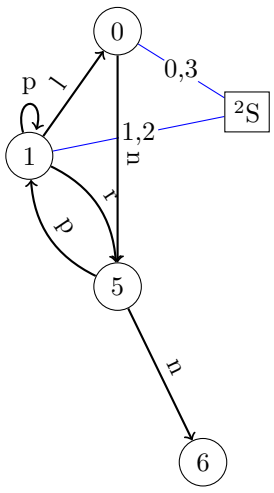
### 1.31 Critical Pair (Not Joinable)

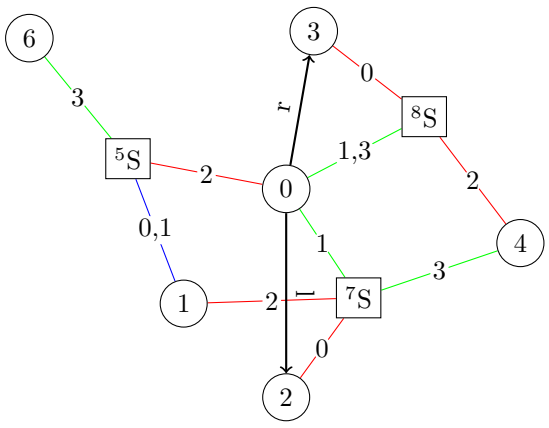


## 1.32 Critical Pair (Not Joinable)




1.4 2.3

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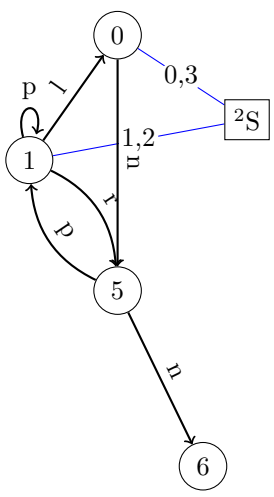


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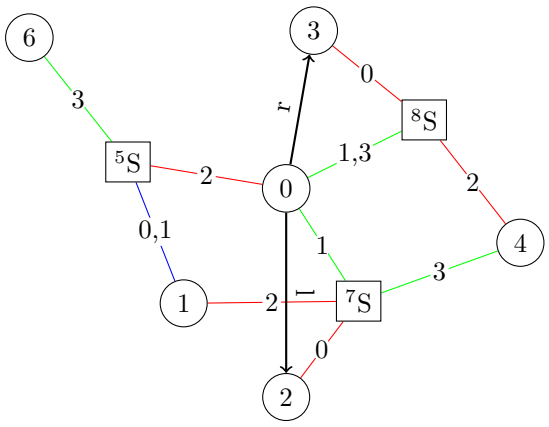
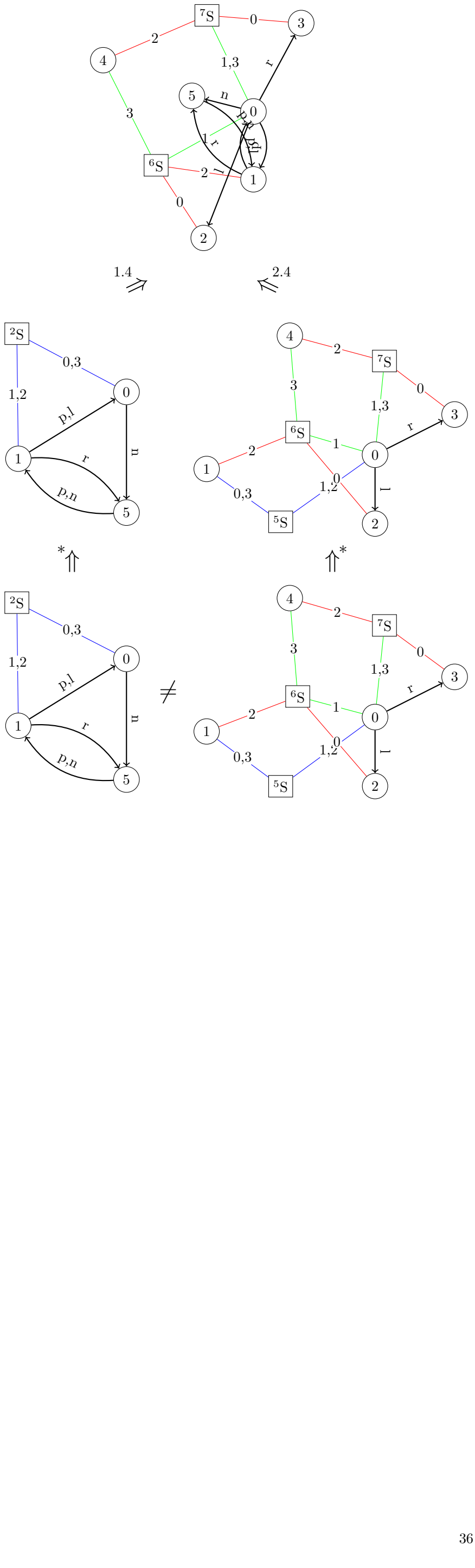
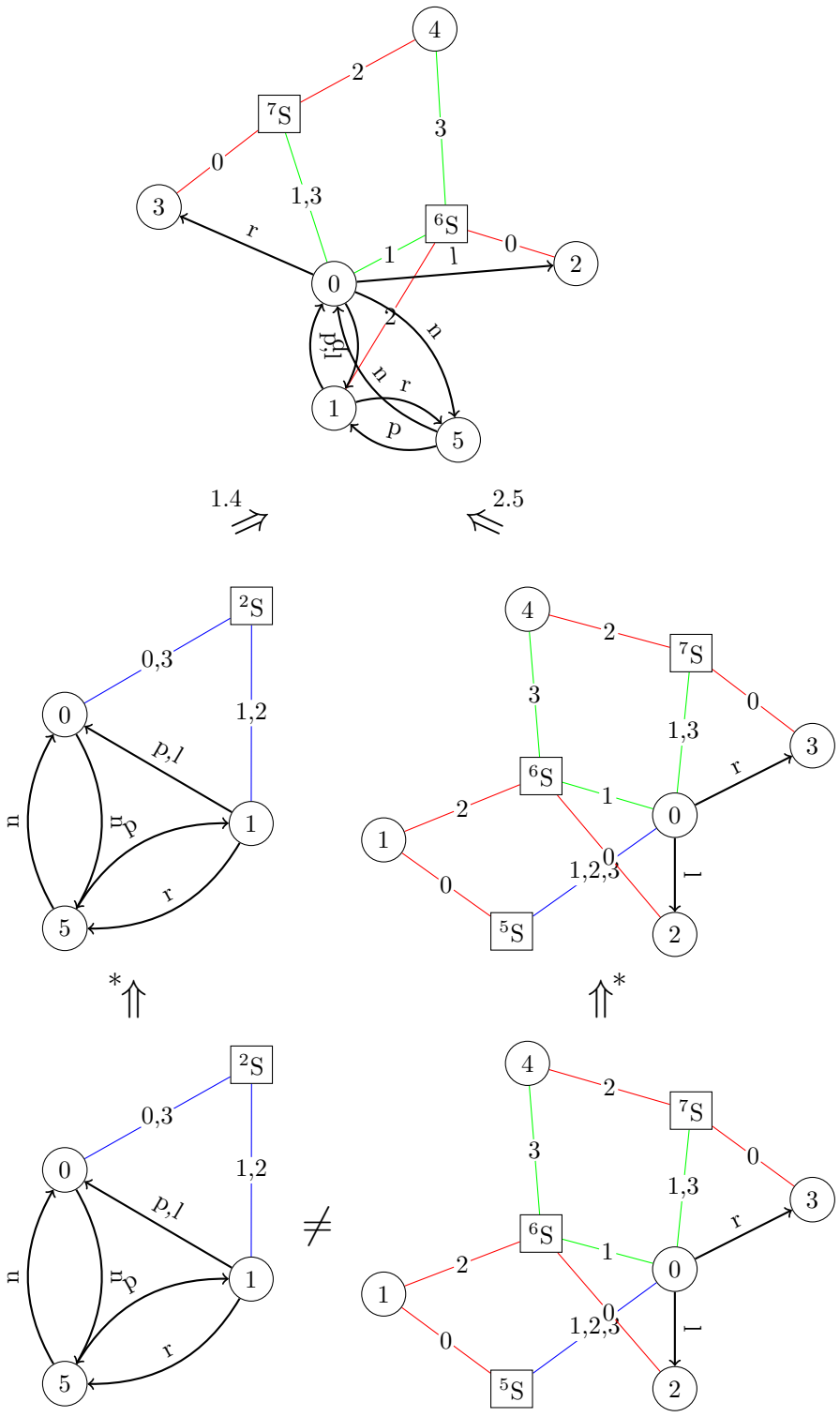


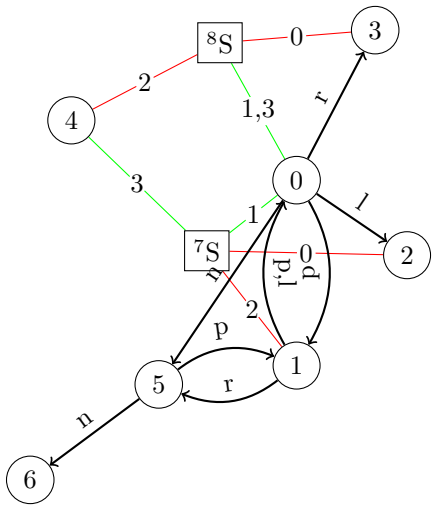
### 1.33 Critical Pair (Not Joinable)



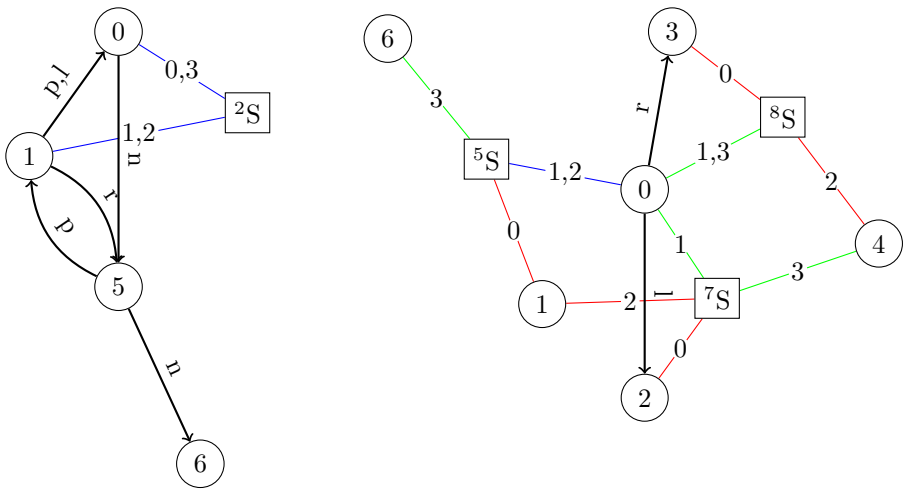
### 1.34 Critical Pair (Not Joinable)



### 1.35 Critical Pair (Not Joinable)




1.4 ⇛ 2.6 ⇚

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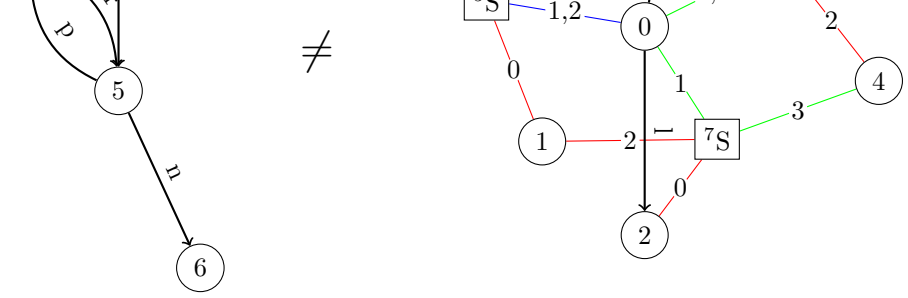

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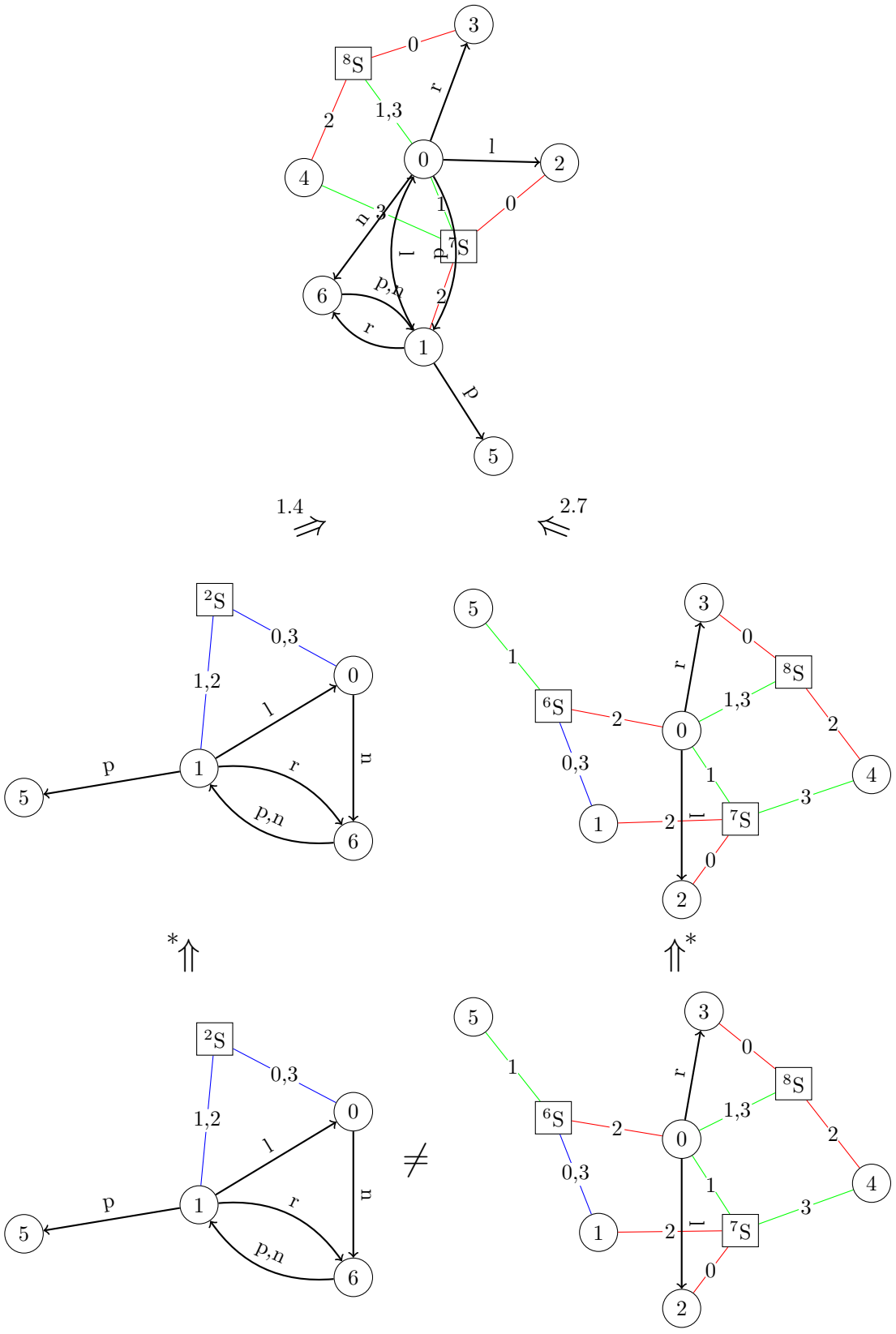
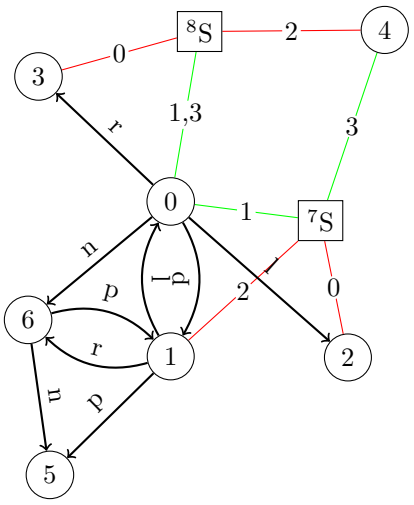
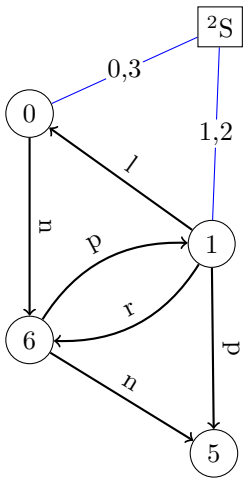


## 1.37 Critical Pair (Not Joinable)




1.4 ⇛ 2.8

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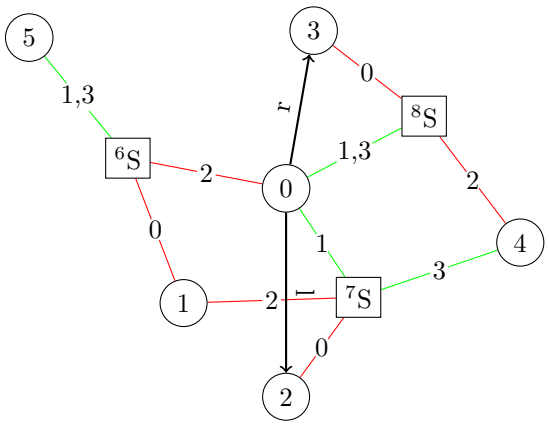


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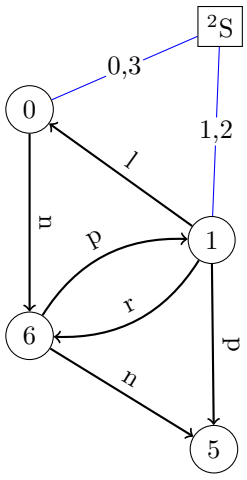


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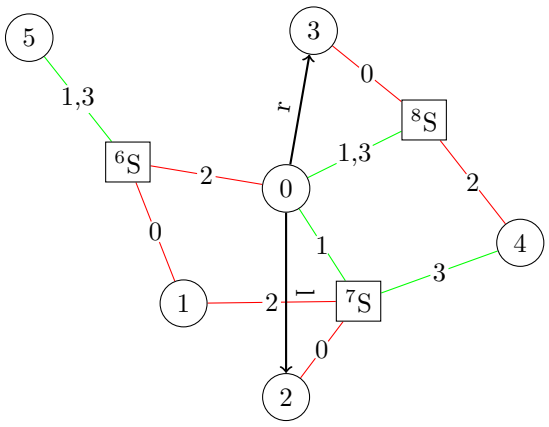
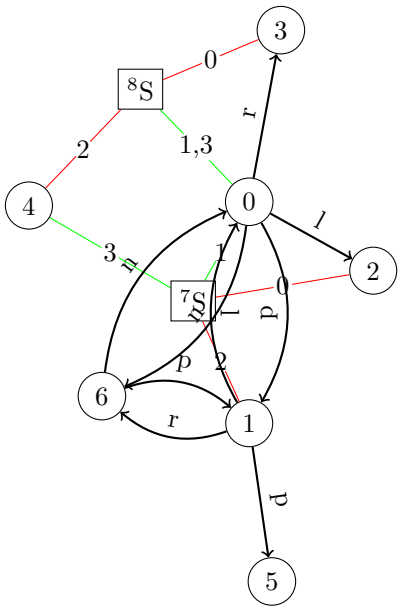
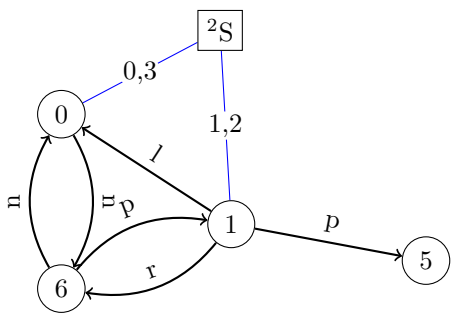
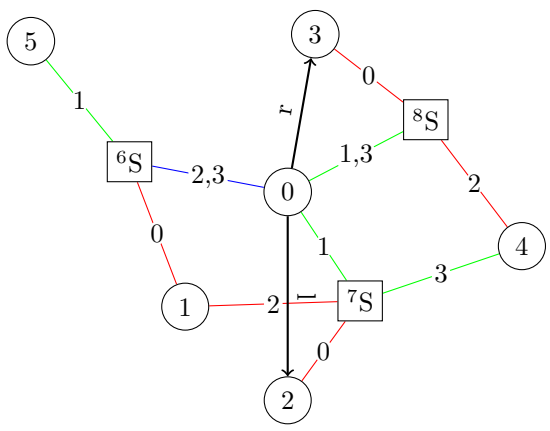


## 1.38 Critical Pair (Not Joinable)




1.4 ⇉ 2.9 ⇇

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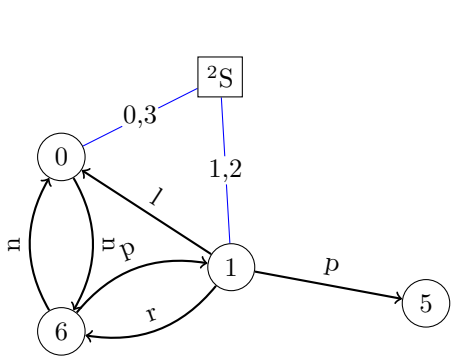


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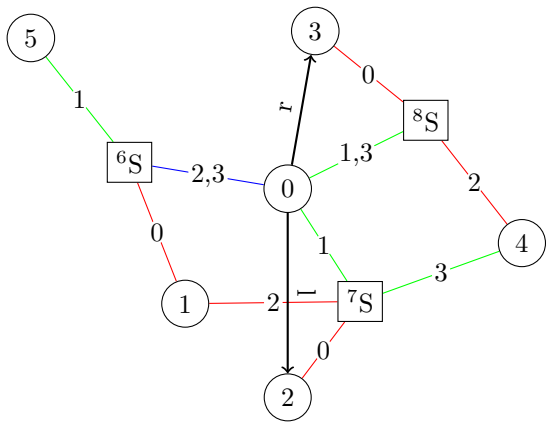
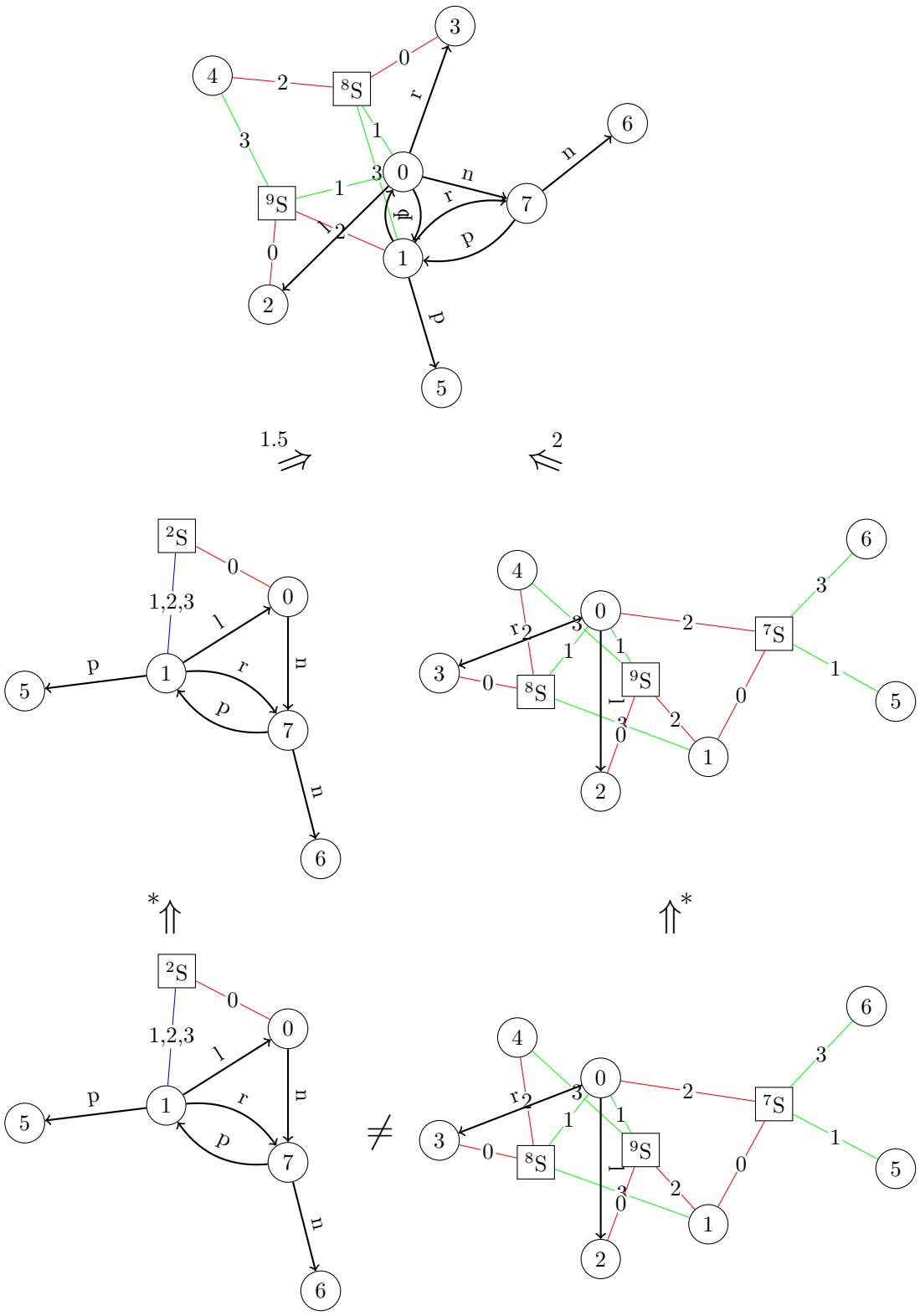
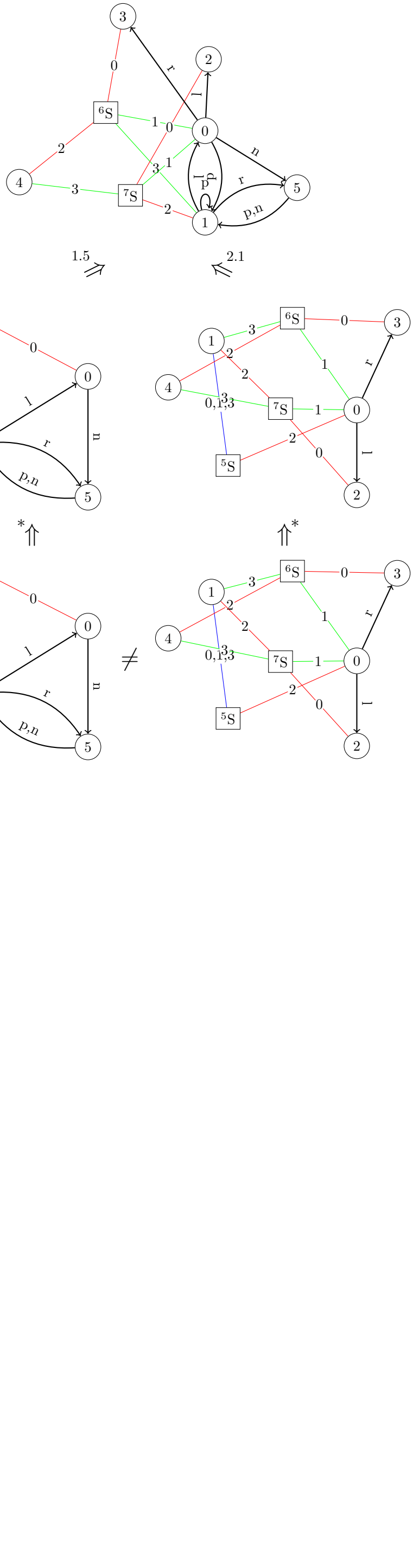


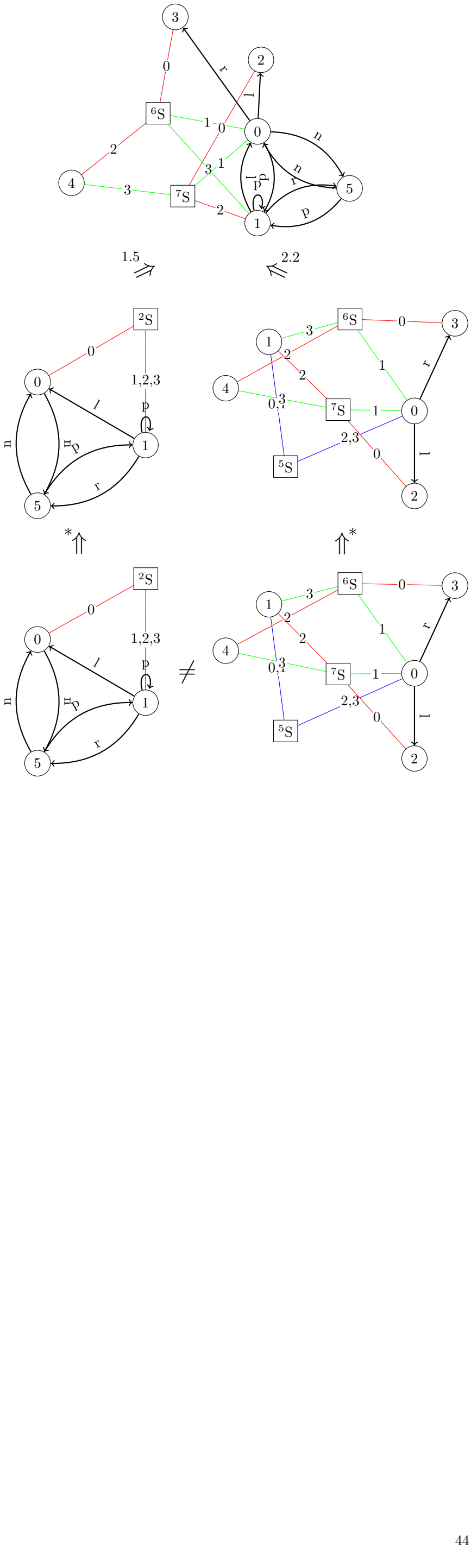
### 1.39 Critical Pair (Not Joinable)



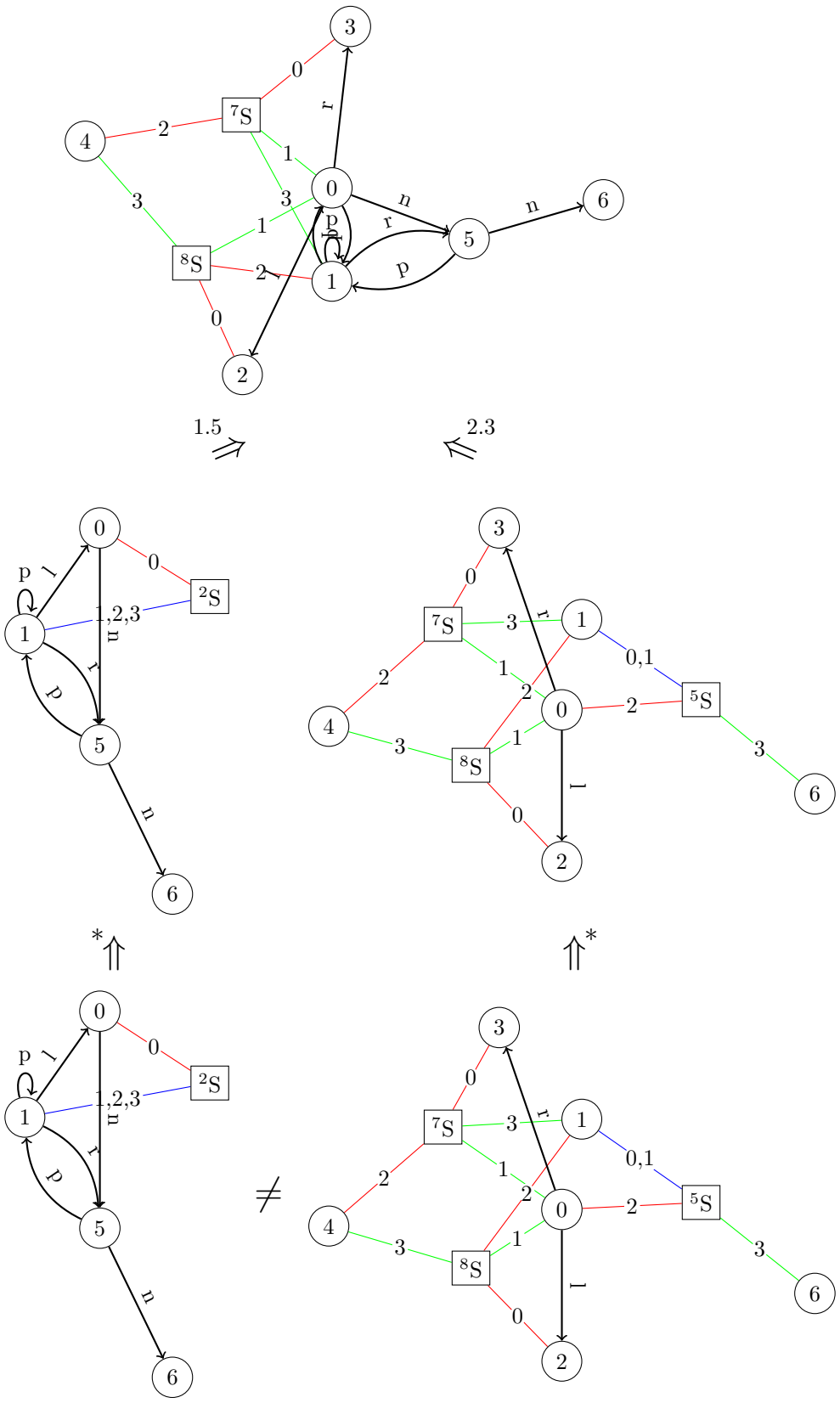
## 1.40 Critical Pair (Not Joinable)



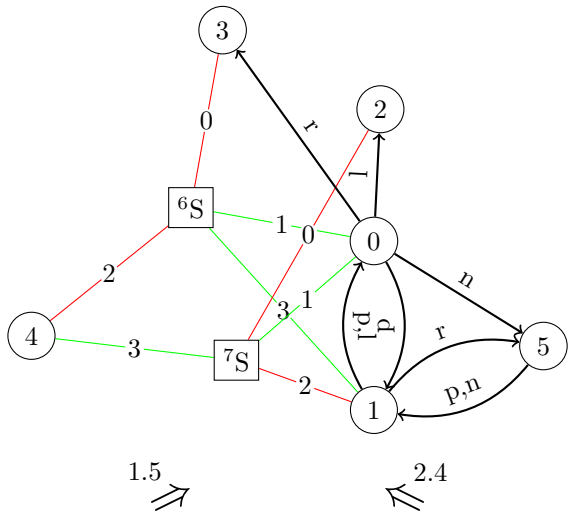
### 1.41 Critical Pair (Not Joinable)



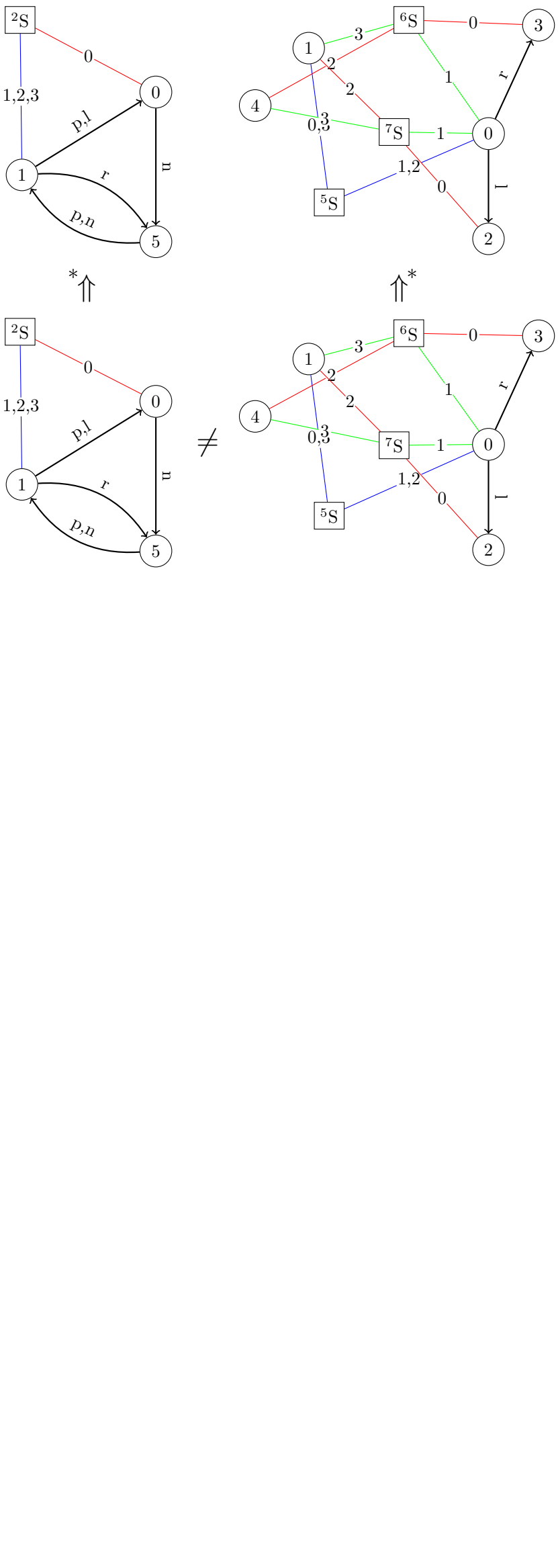
### 1.42 Critical Pair (Not Joinable)



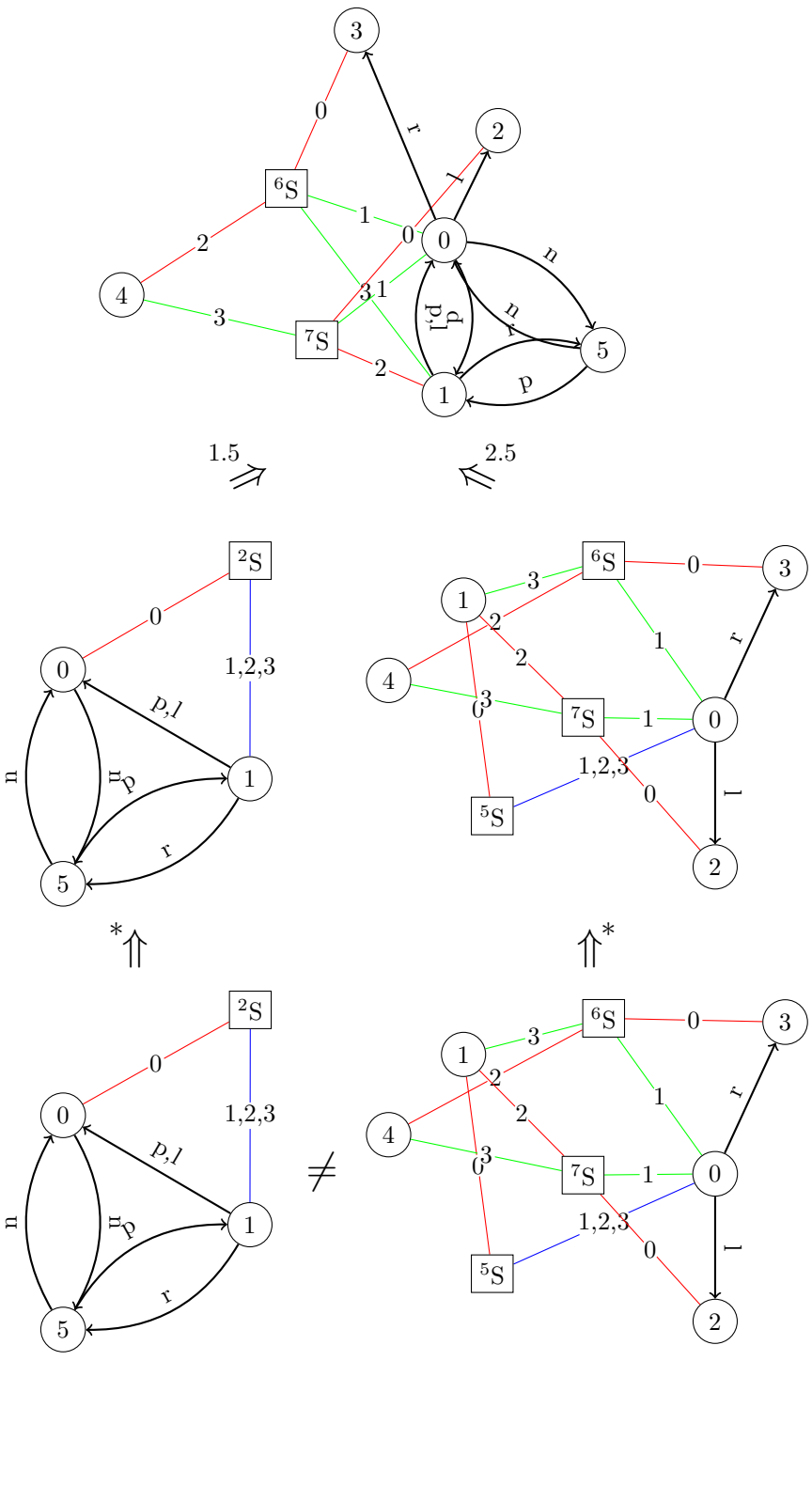
### 1.43 Critical Pair (Not Joinable)



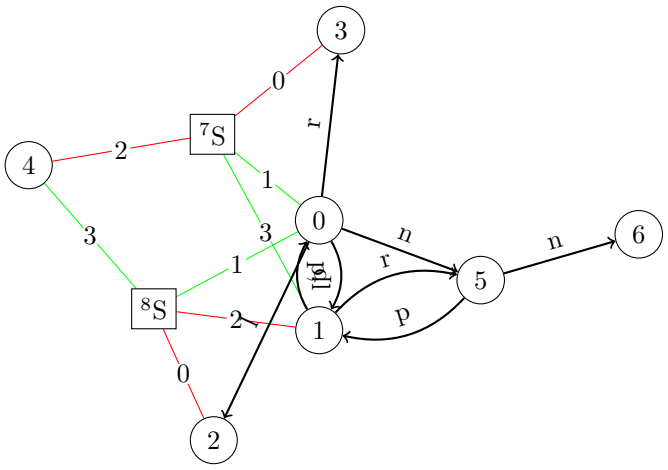

1.5 2.4



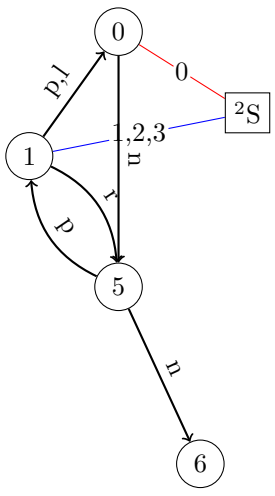
## 1.44 Critical Pair (Not Joinable)

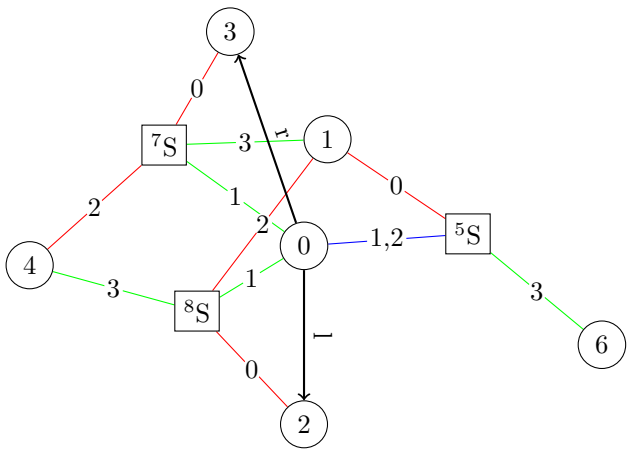


### 1.45 Critical Pair (Not Joinable)




1.5 ⇛ 2.6

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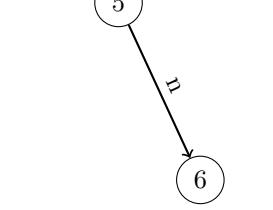


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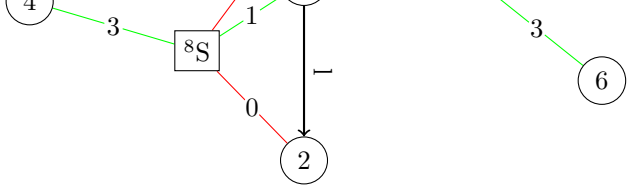
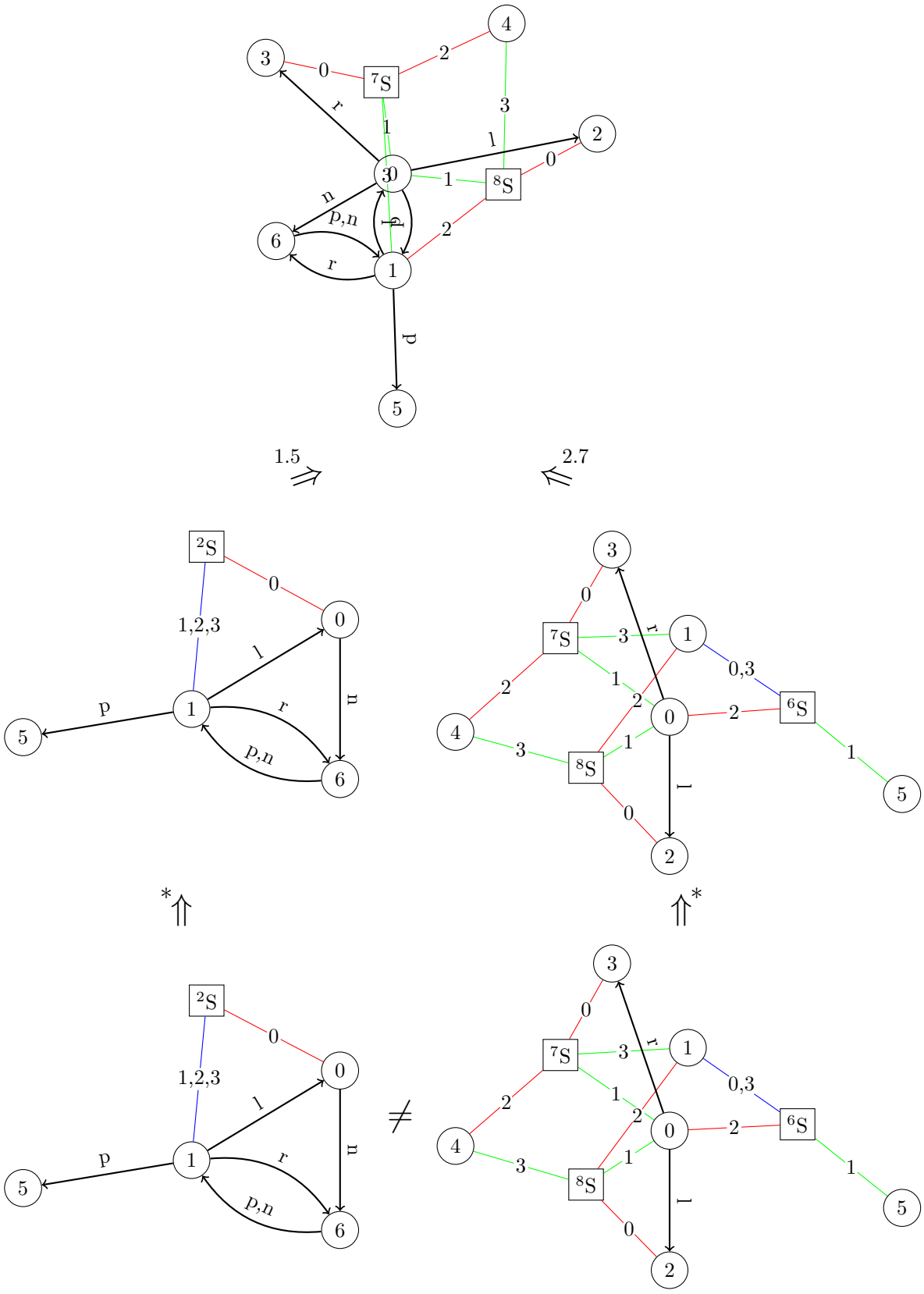
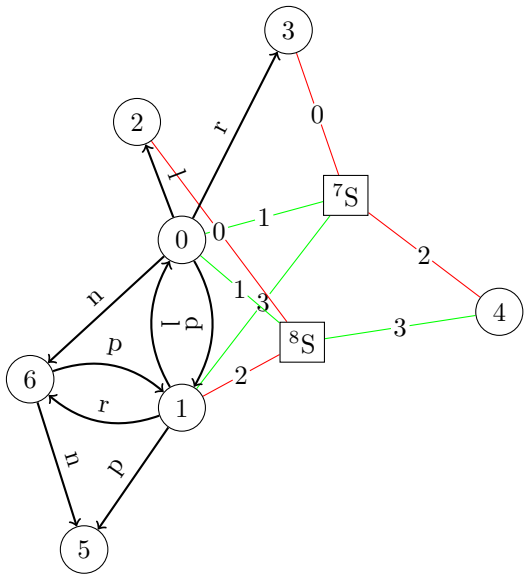


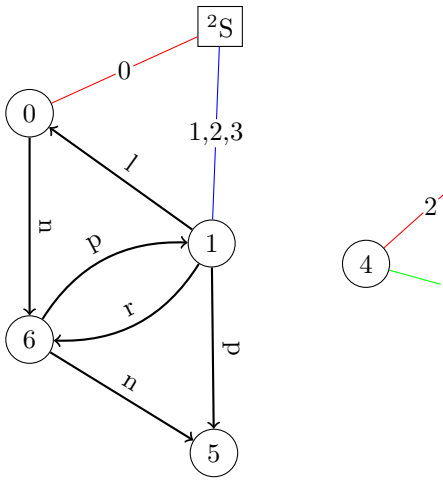
### 1.46 Critical Pair (Not Joinable)



## 1.47 Critical Pair (Not Joinable)




1.5 ⇛ 2.8 ⇚

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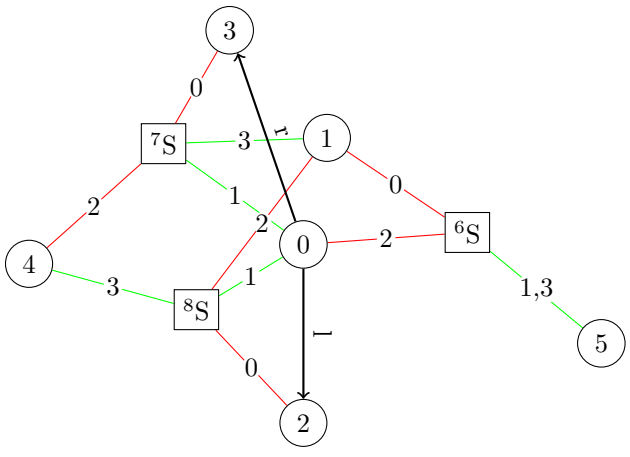


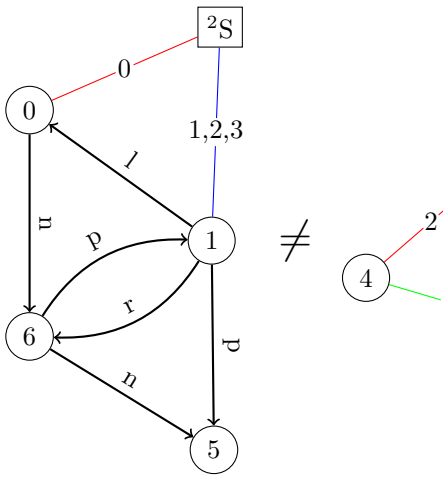


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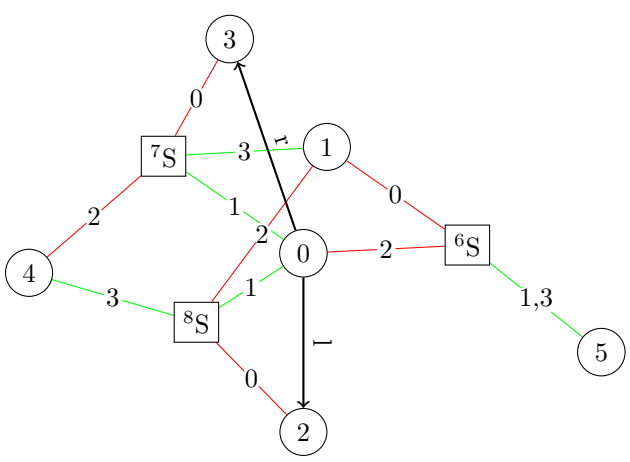
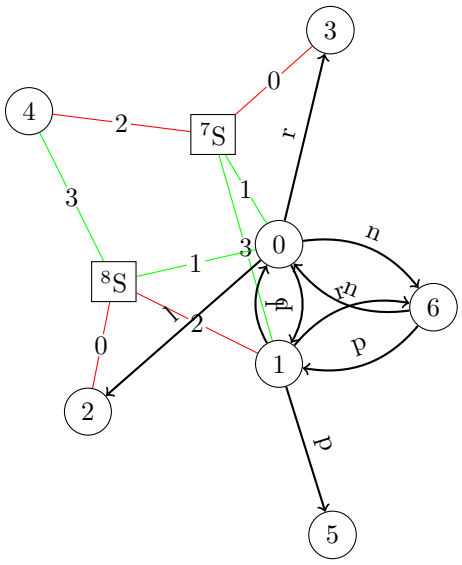
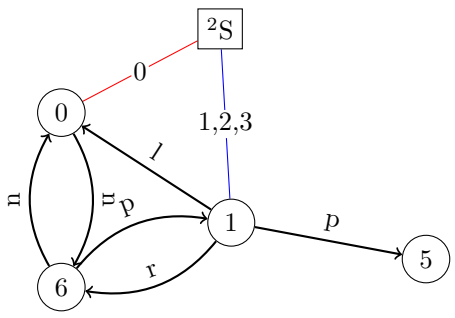
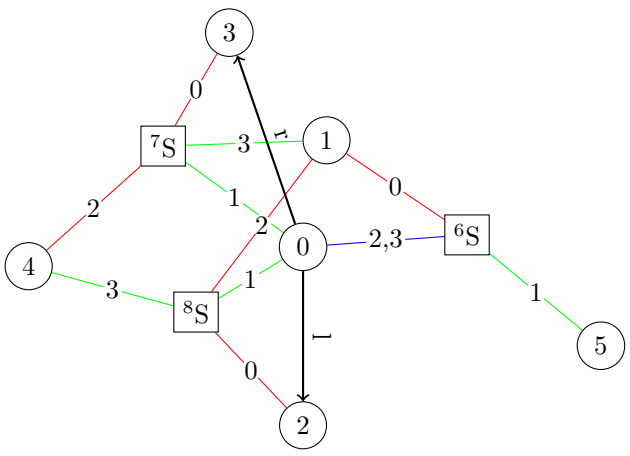


## 1.48 Critical Pair (Not Joinable)




1.5 ⇉ ⇇ 2.9

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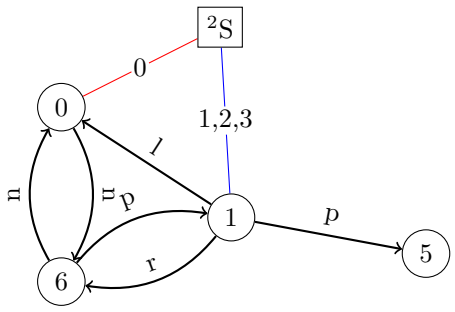


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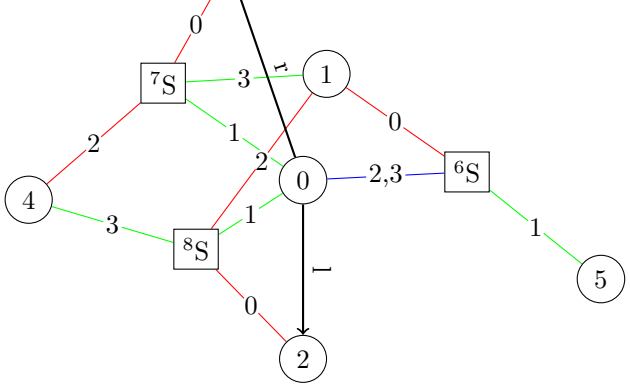
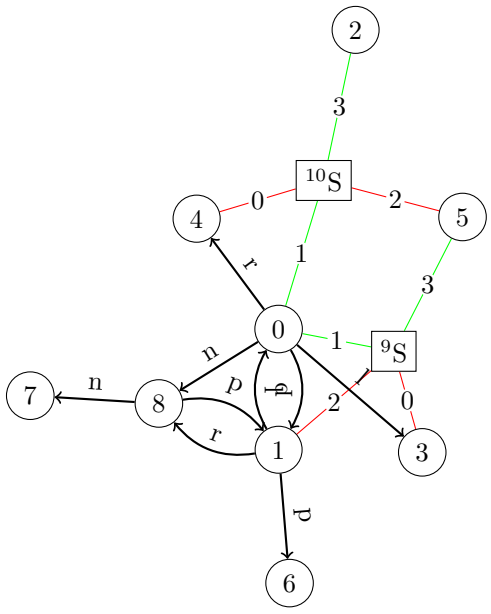
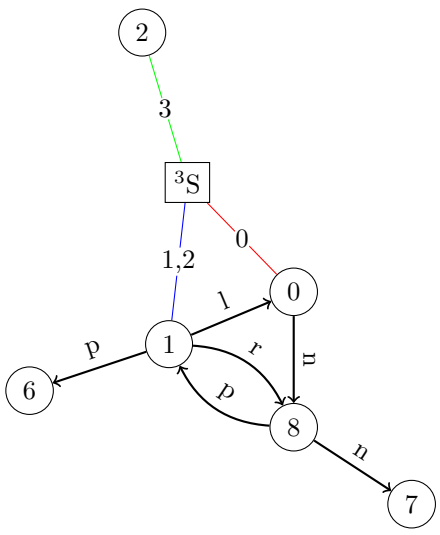


### 1.49 Critical Pair (Not Joinable)




1.6 ⇉ 2 ⇇

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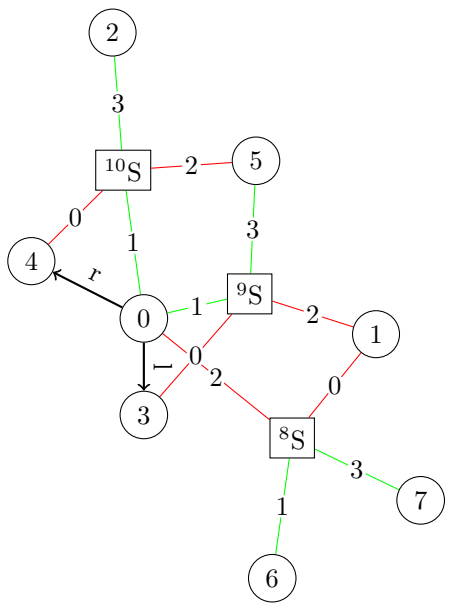


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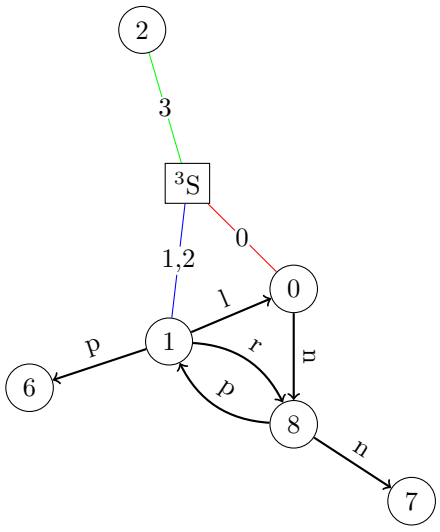
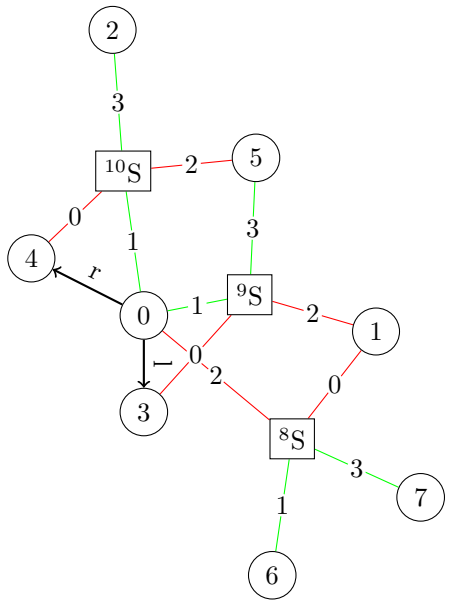
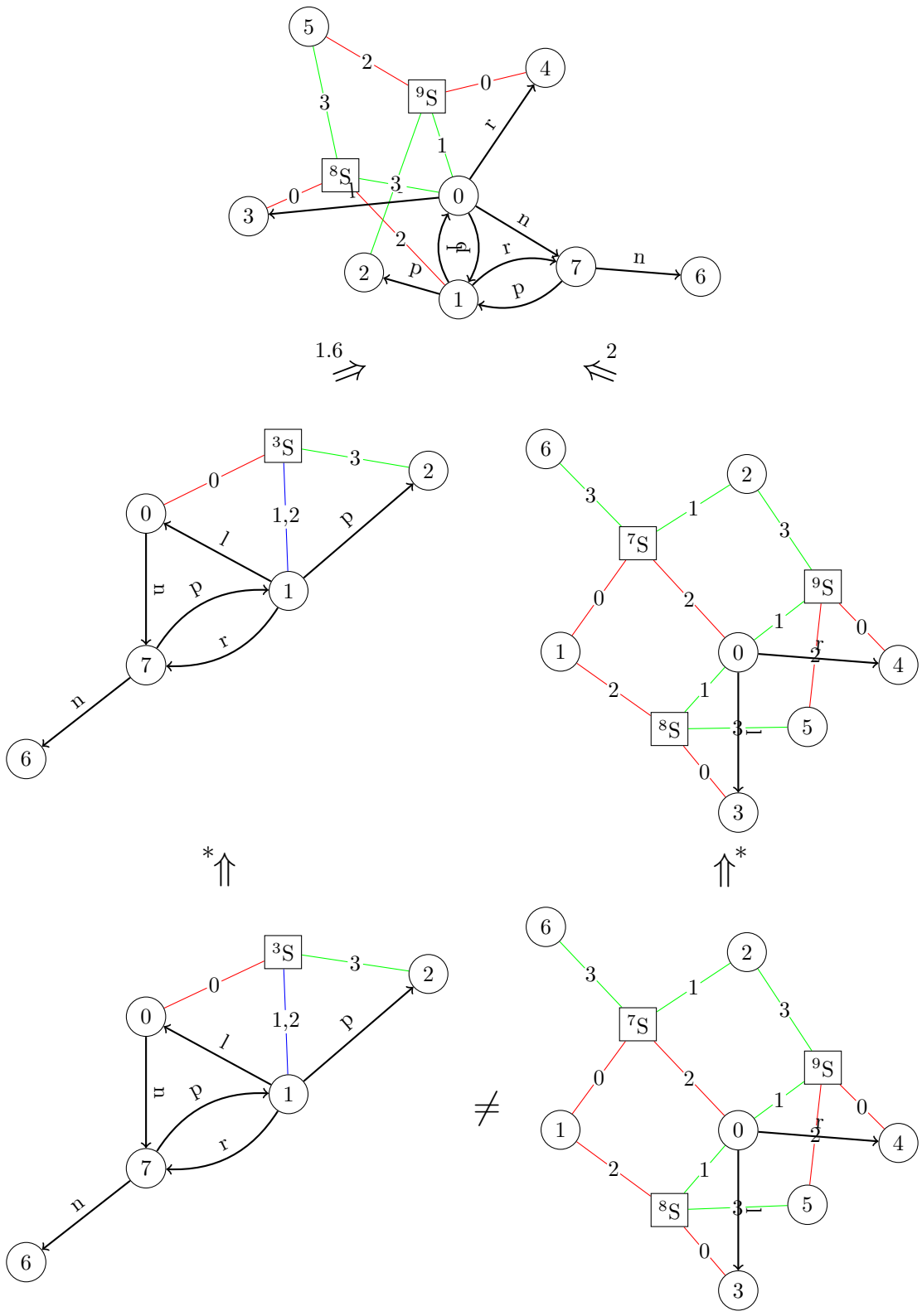
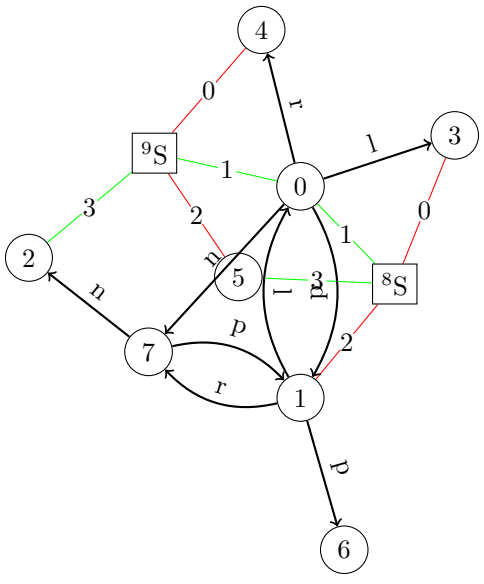


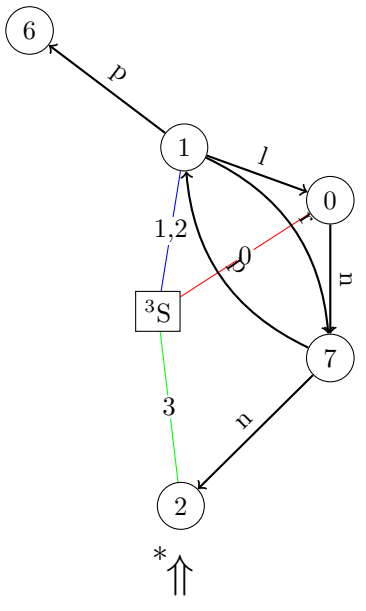
## 1.50 Critical Pair (Not Joinable)



### 1.51 Critical Pair (Not Joinable)




1.6 ⇛ 2 ⇚

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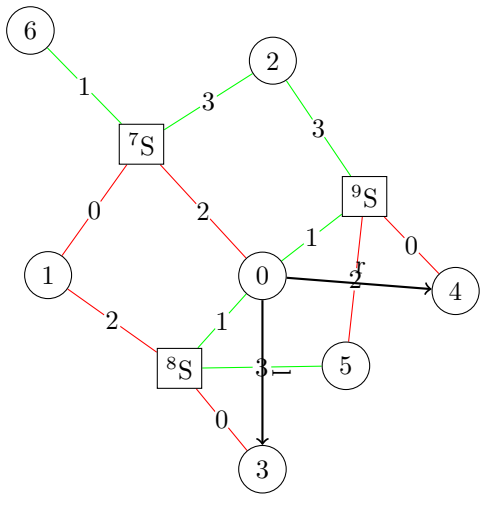


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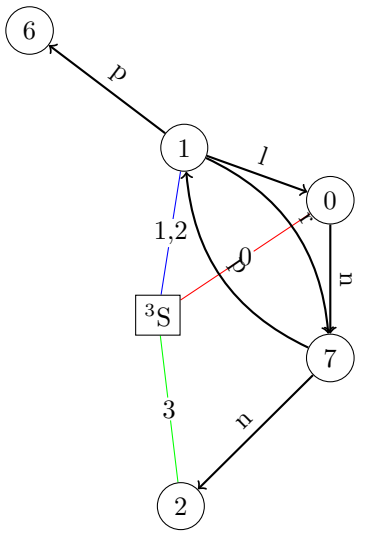


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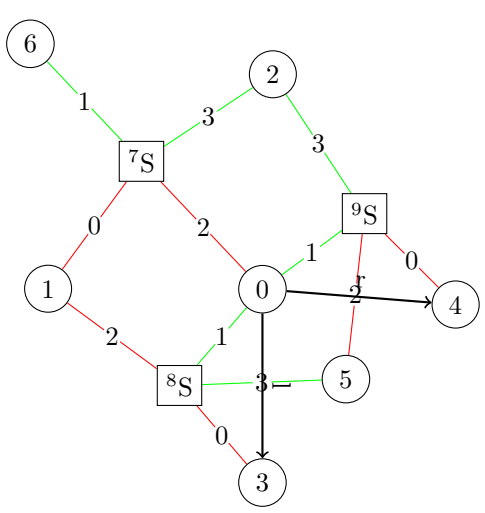
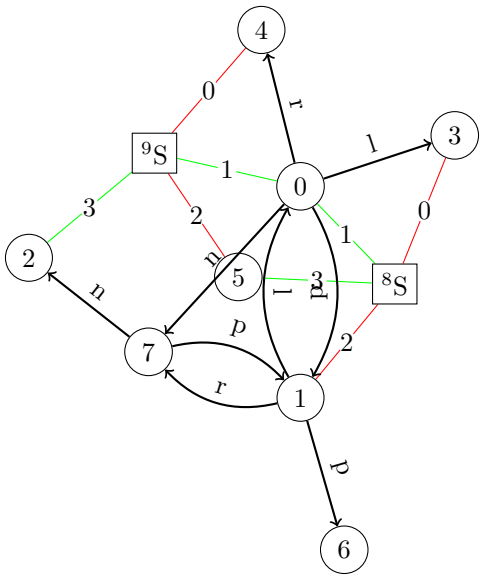
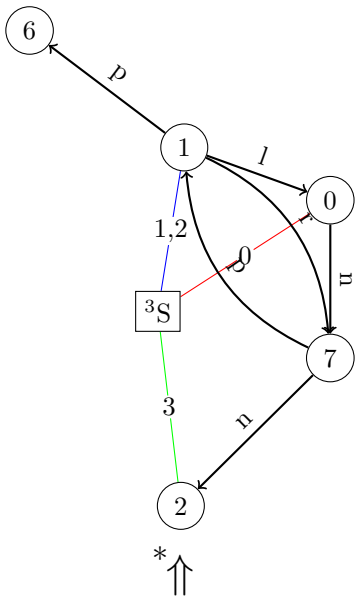


## 1.52 Critical Pair (Not Joinable)




1.6 ⇒ 2 ⇐

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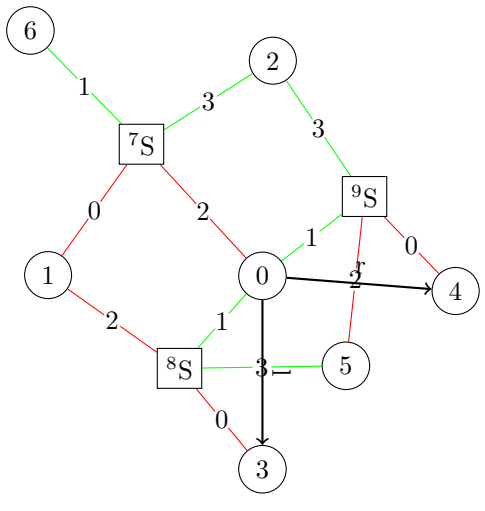


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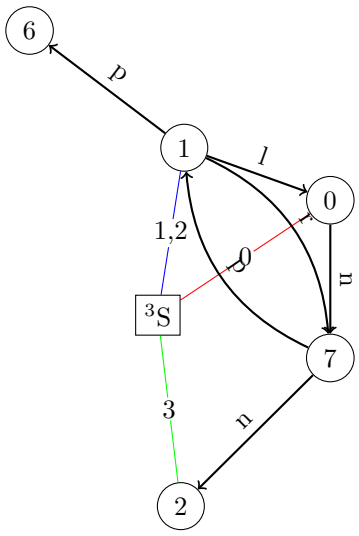


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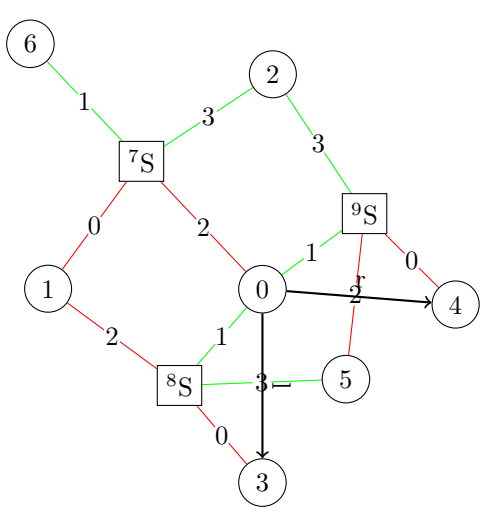
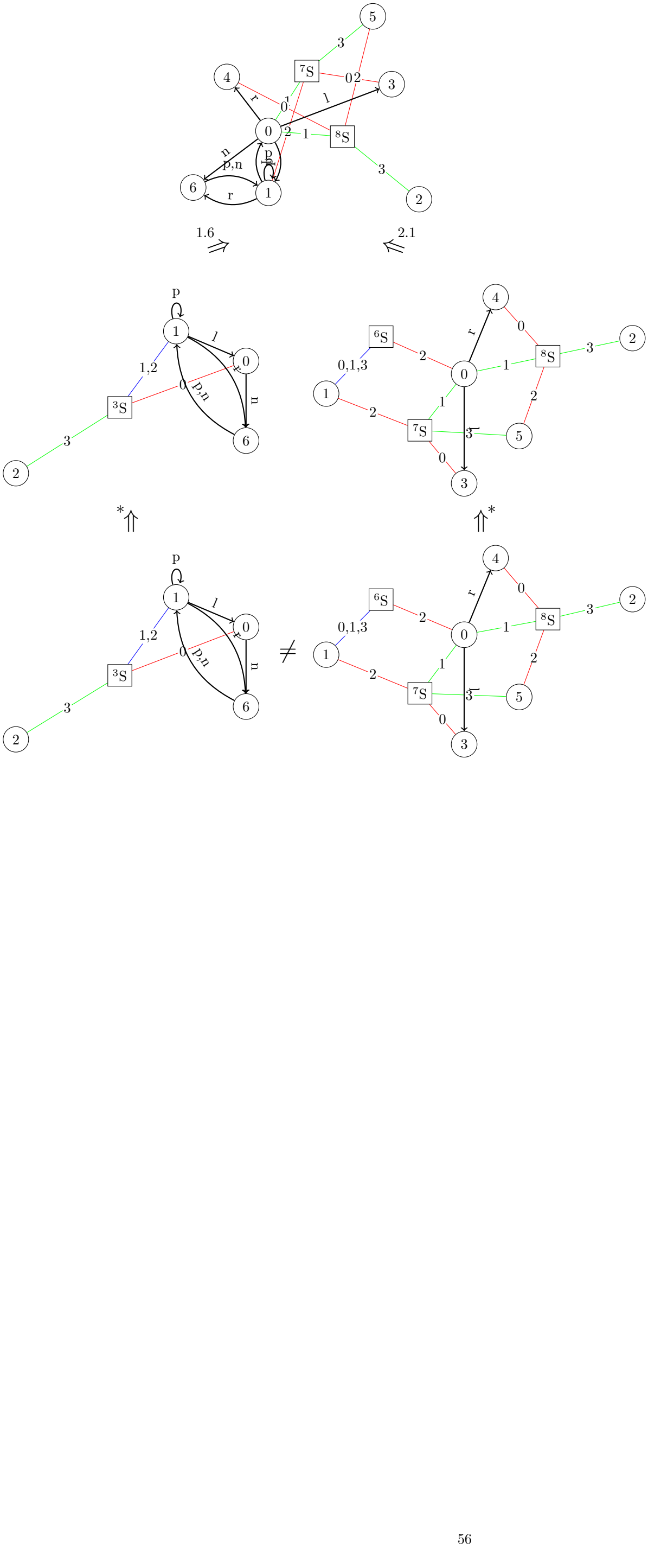
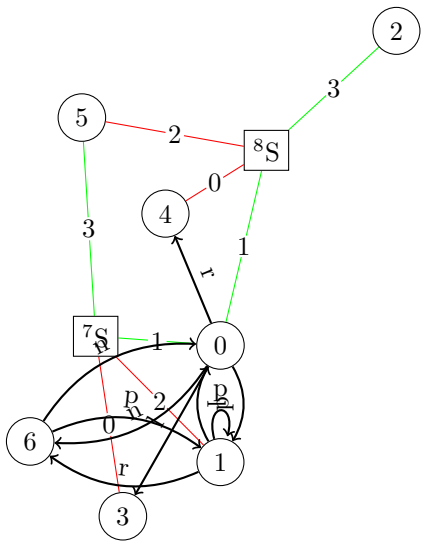


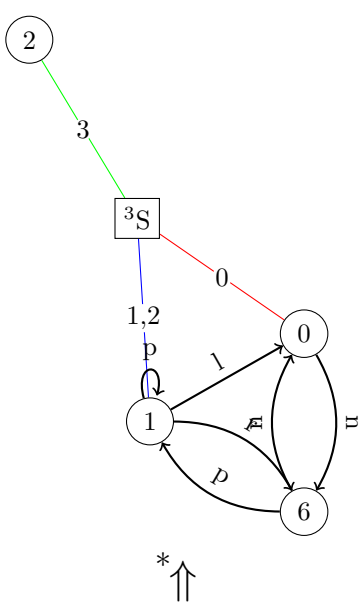
### 1.53 Critical Pair (Not Joinable)



## 1.54 Critical Pair (Not Joinable)




1.6 2.2

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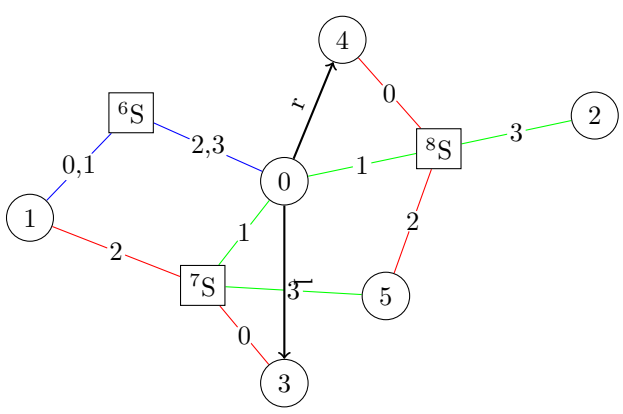


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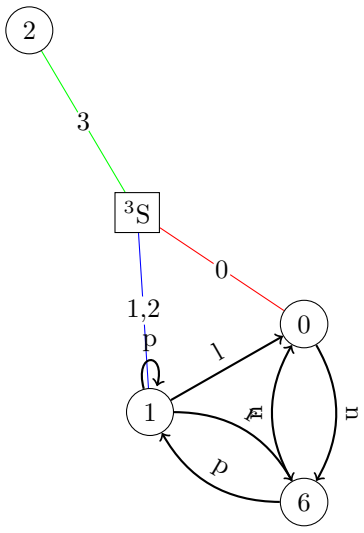


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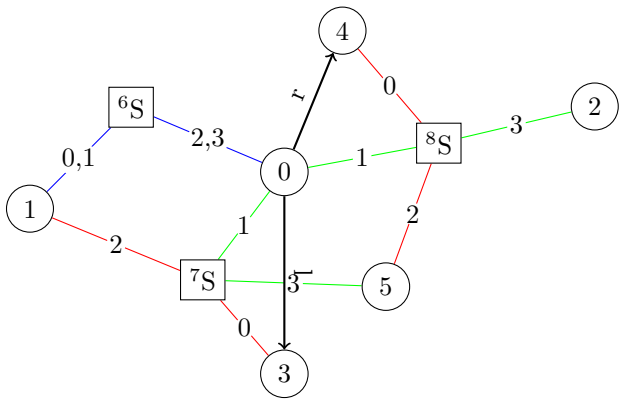
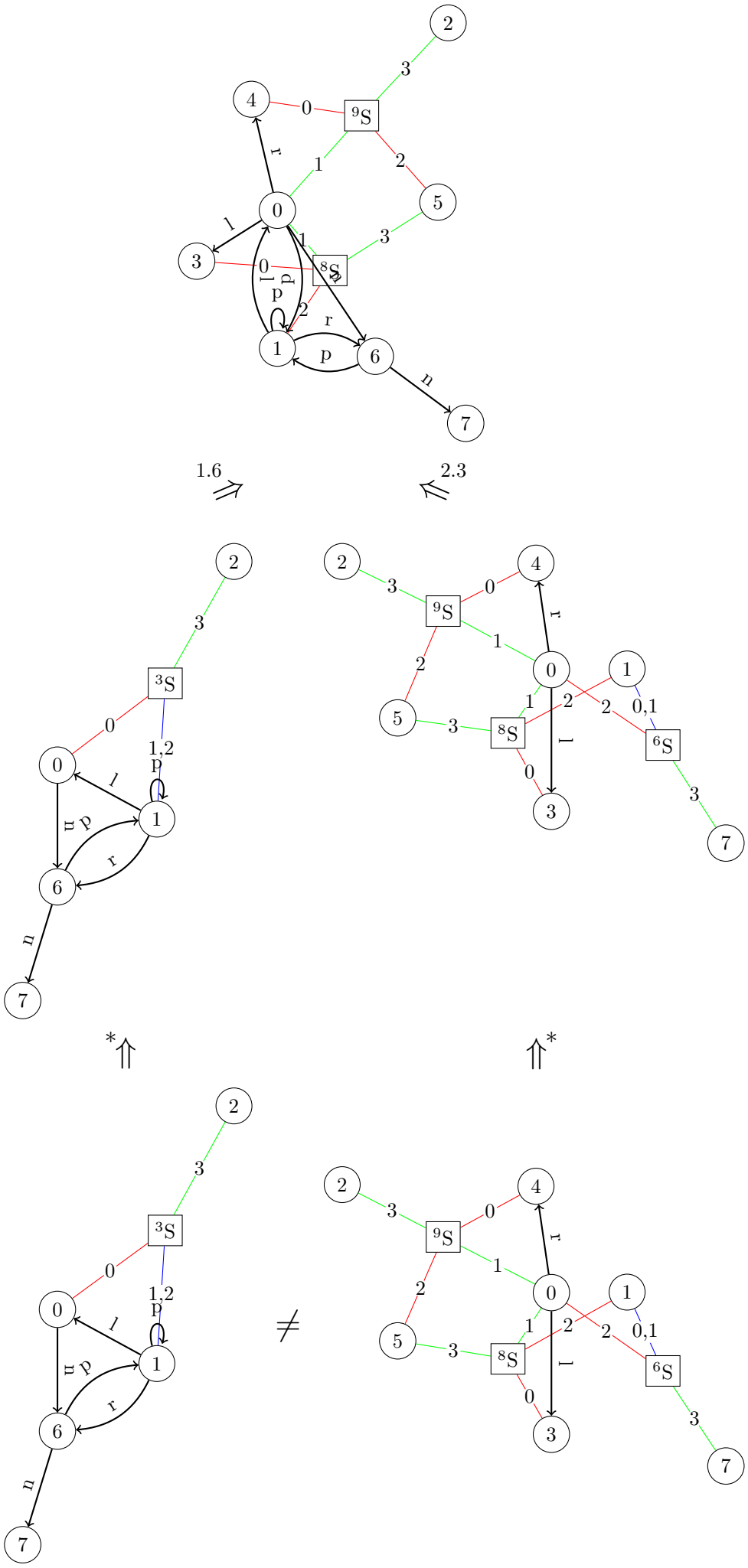
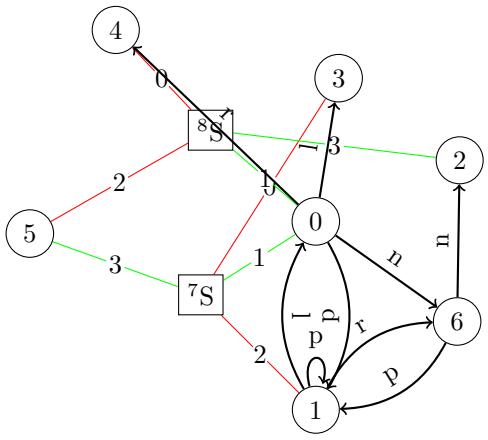


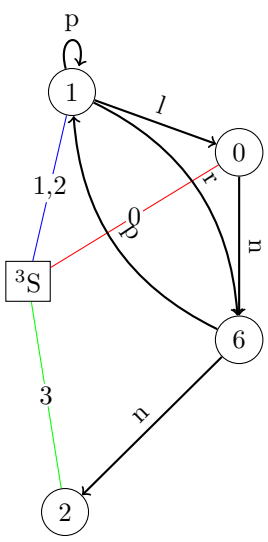
### 1.55 Critical Pair (Not Joinable)



## 1.56 Critical Pair (Not Joinable)




1.6 2.3

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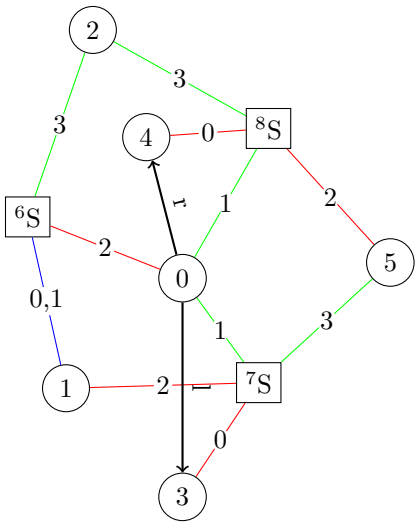


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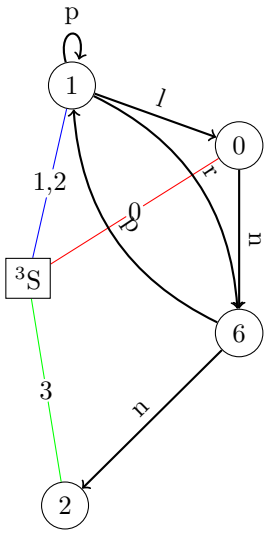


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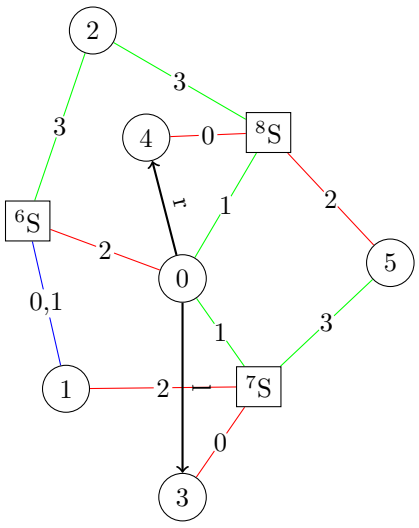
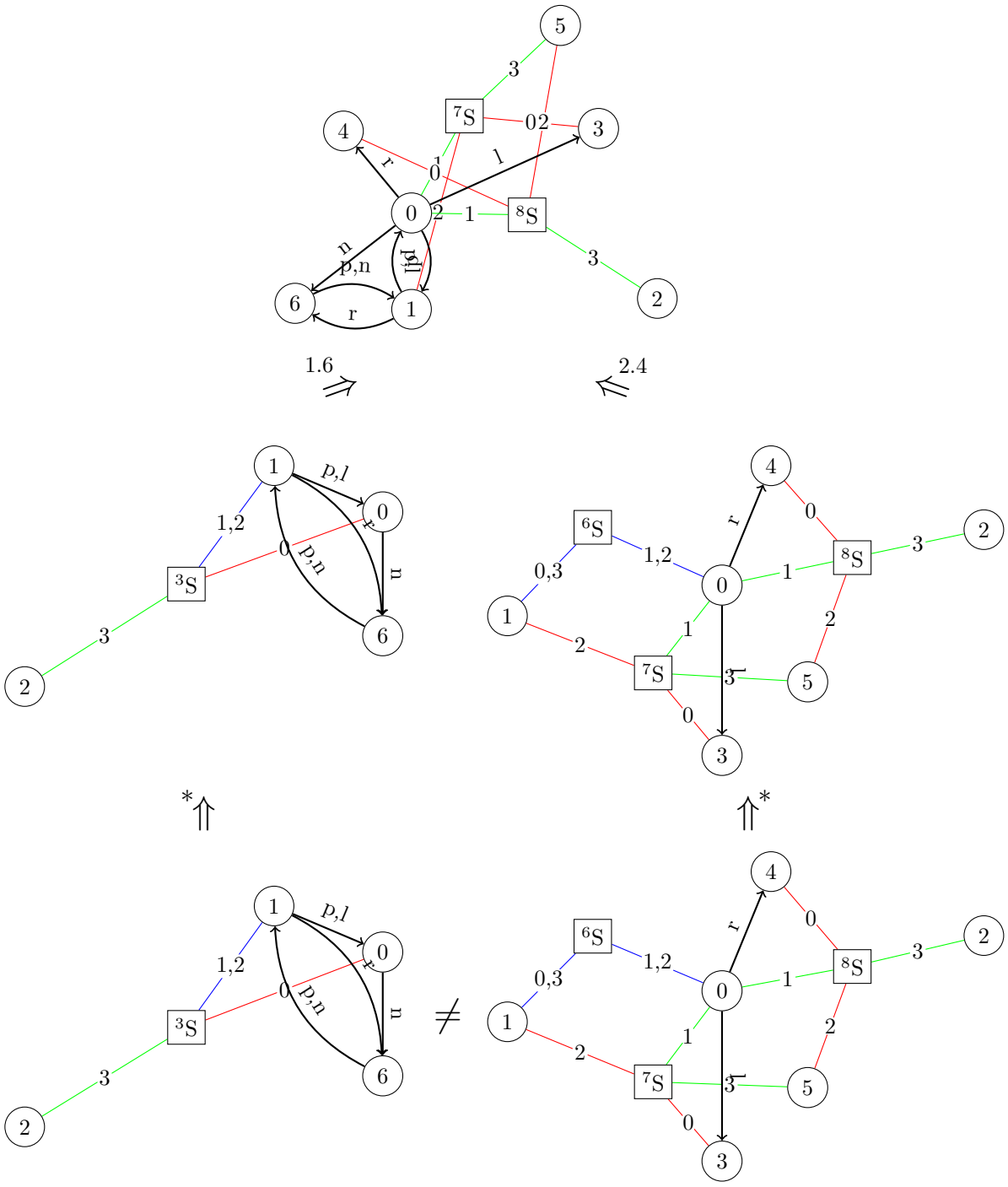
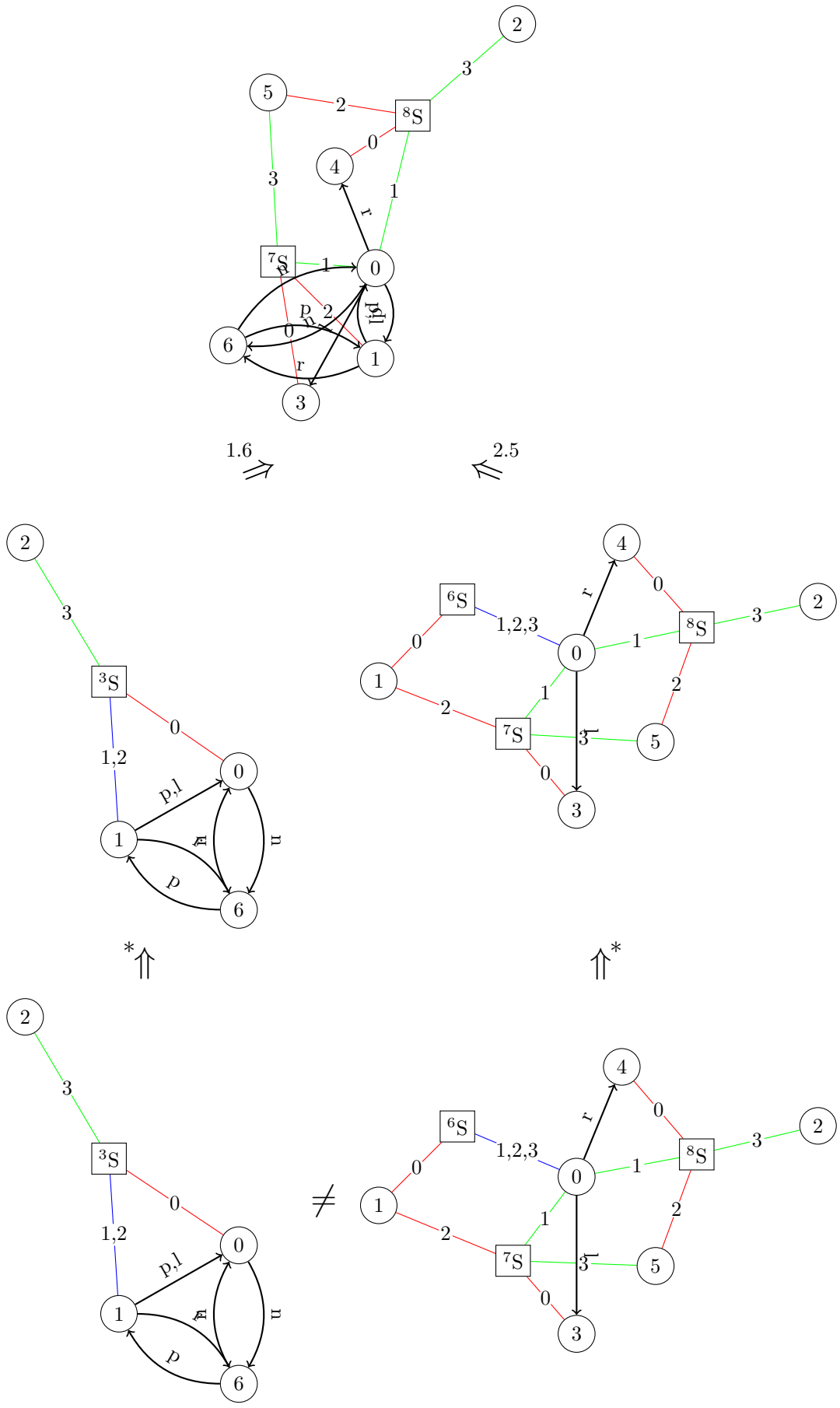


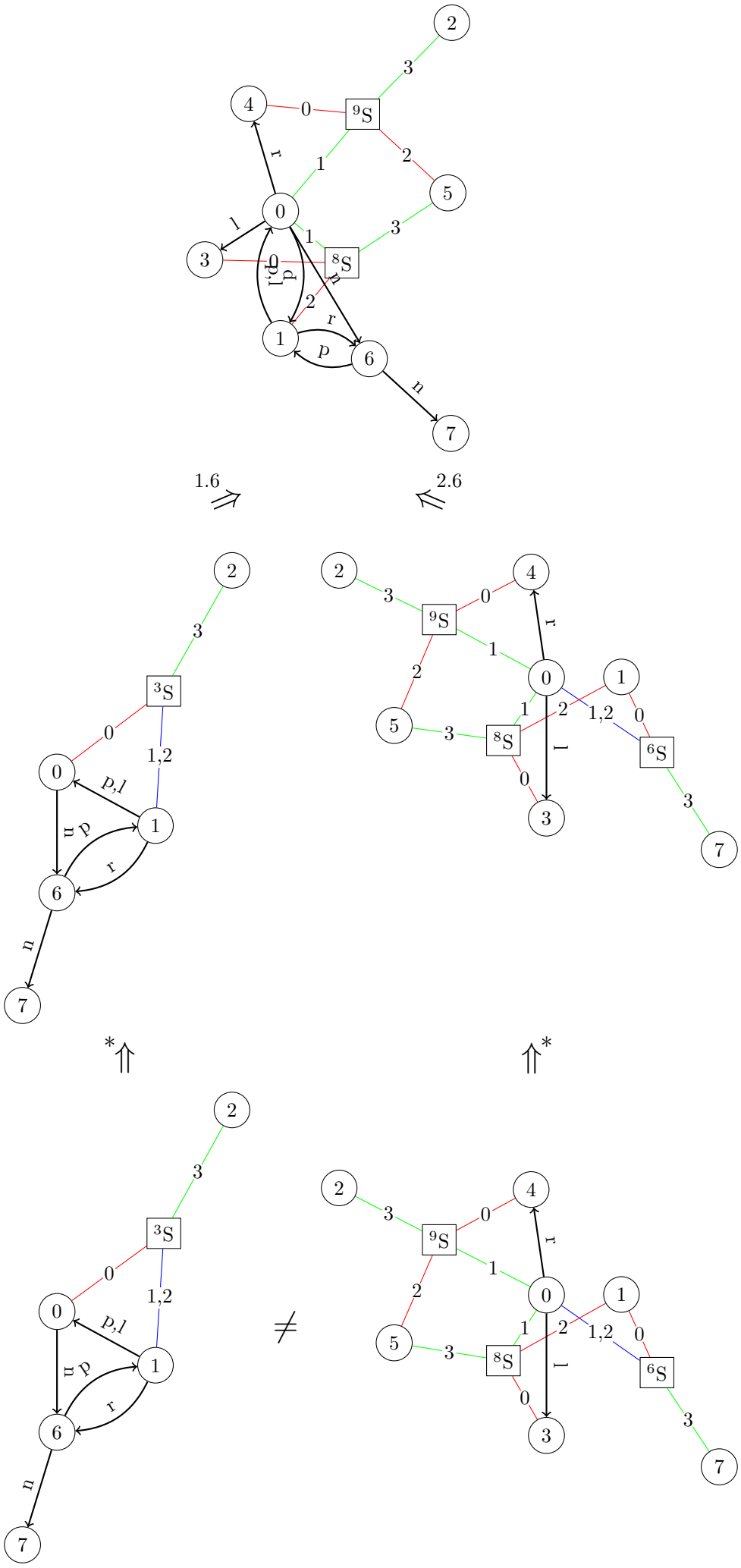
### 1.57 Critical Pair (Not Joinable)



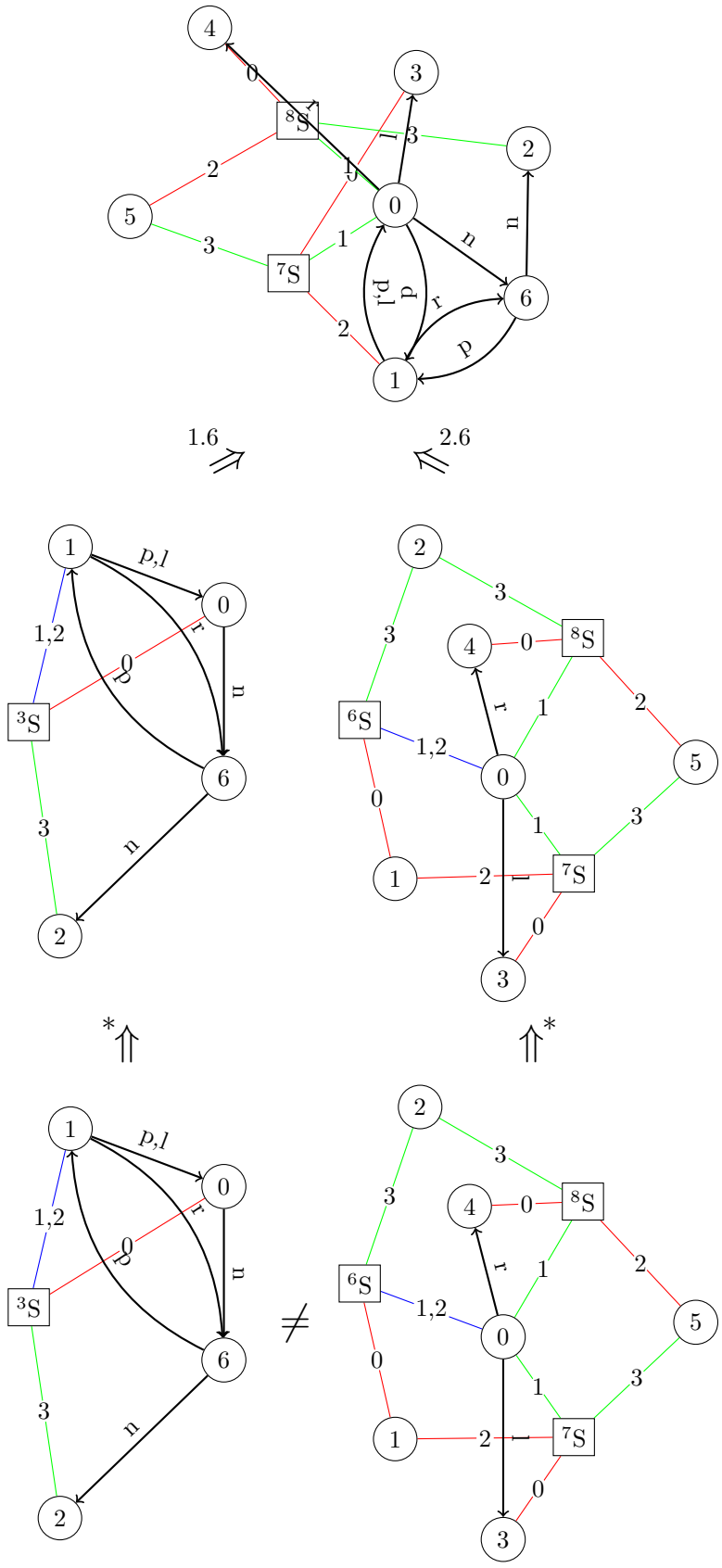
## 1.58 Critical Pair (Not Joinable)



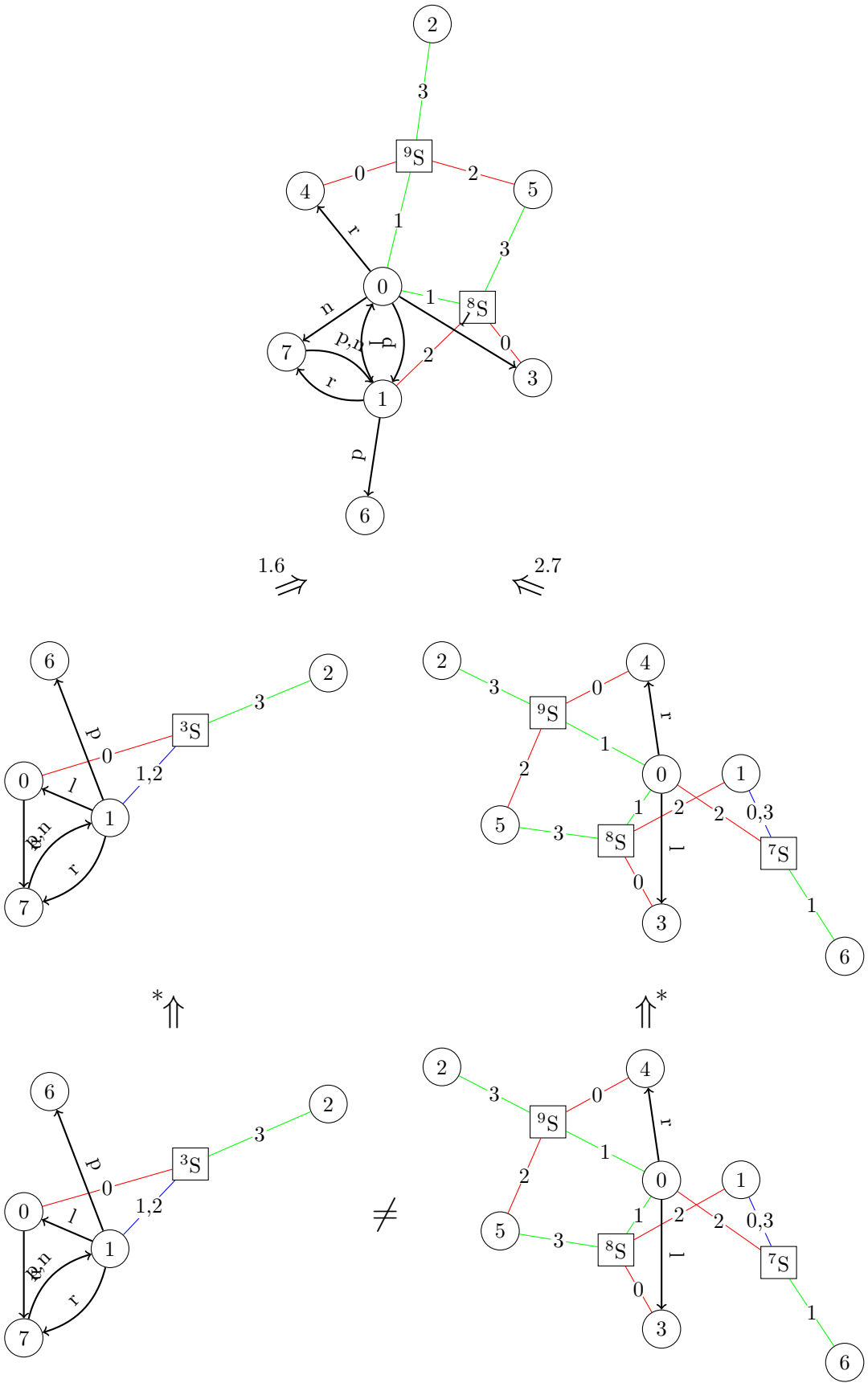
## 1.59 Critical Pair (Not Joinable)



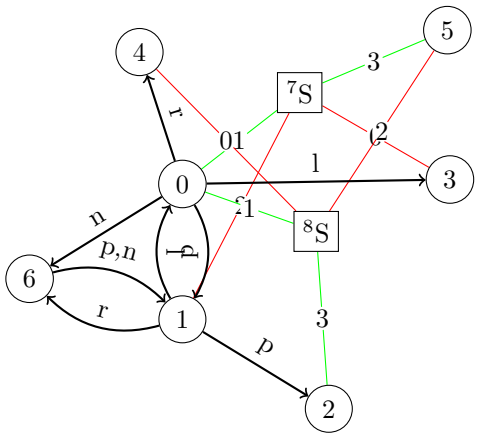
## 1.60 Critical Pair (Not Joinable)



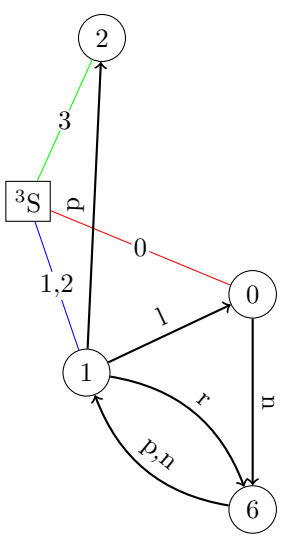
### 1.61 Critical Pair (Not Joinable)



## 1.62 Critical Pair (Not Joinable)




1.6 2.7

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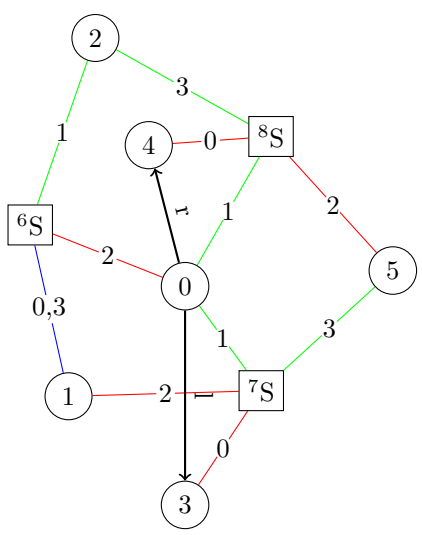


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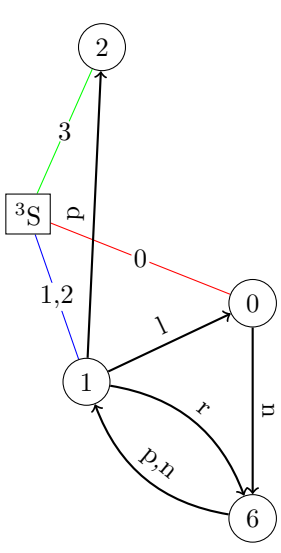


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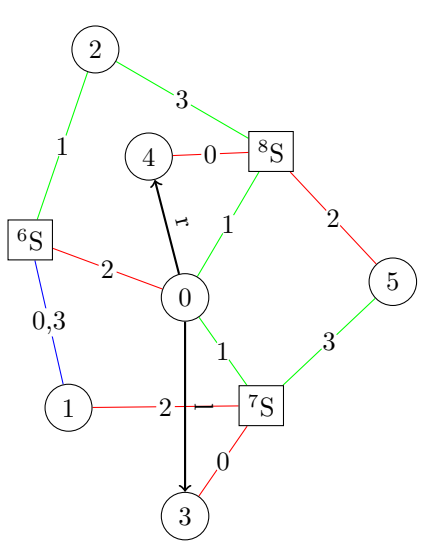
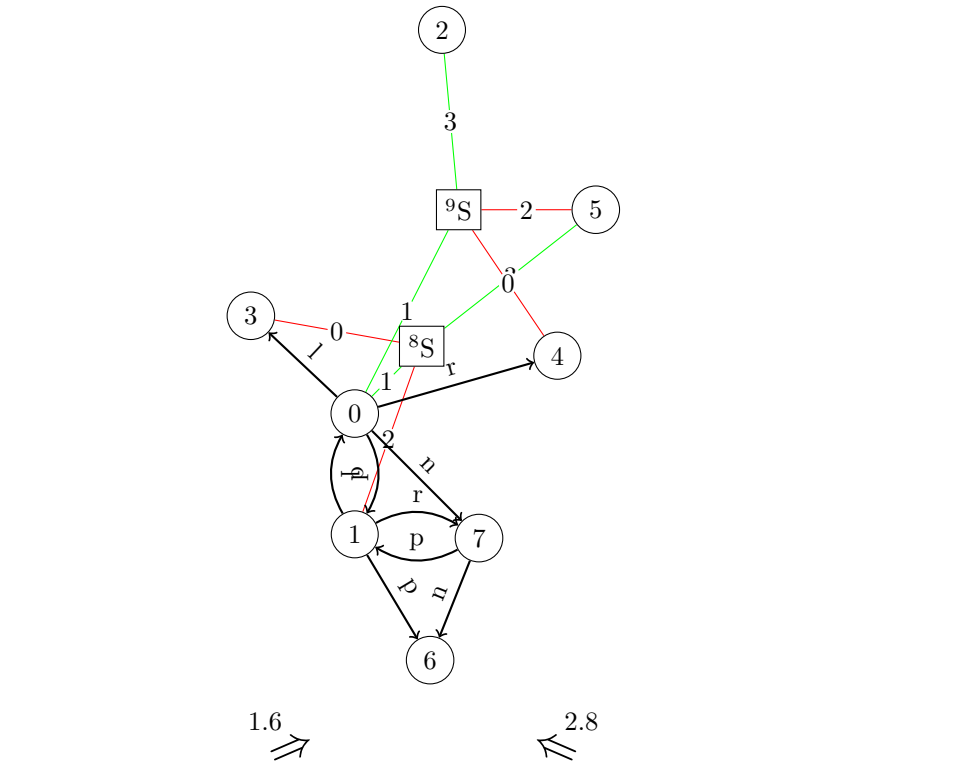
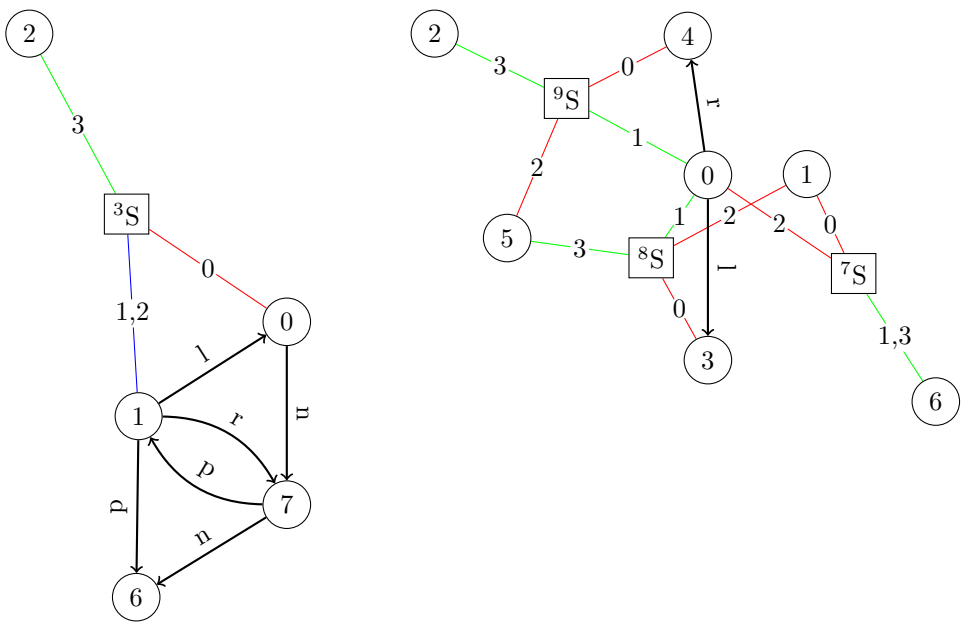


### 1.63 Critical Pair (Not Joinable)




1.6 ⇉ 2.8 ⇇

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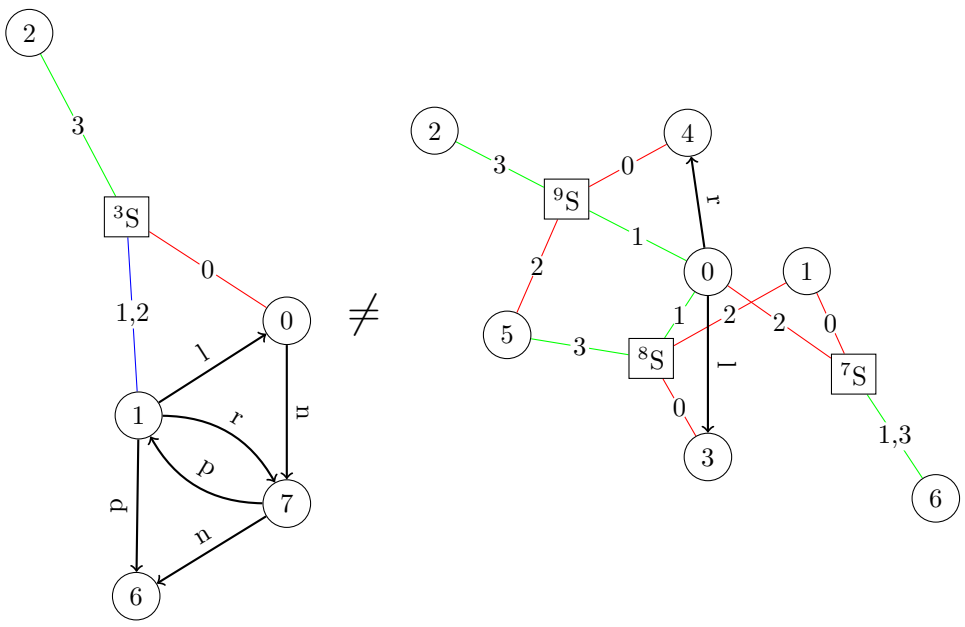
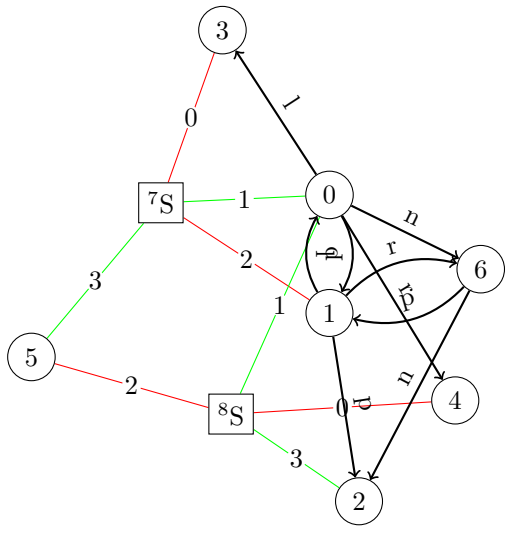
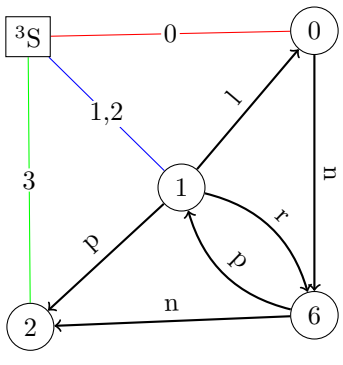
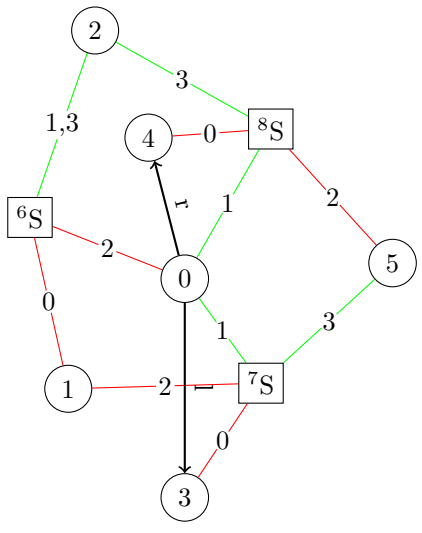


## 1.64 Critical Pair (Not Joinable)




1.6 ⇉ 2.8 ⇇

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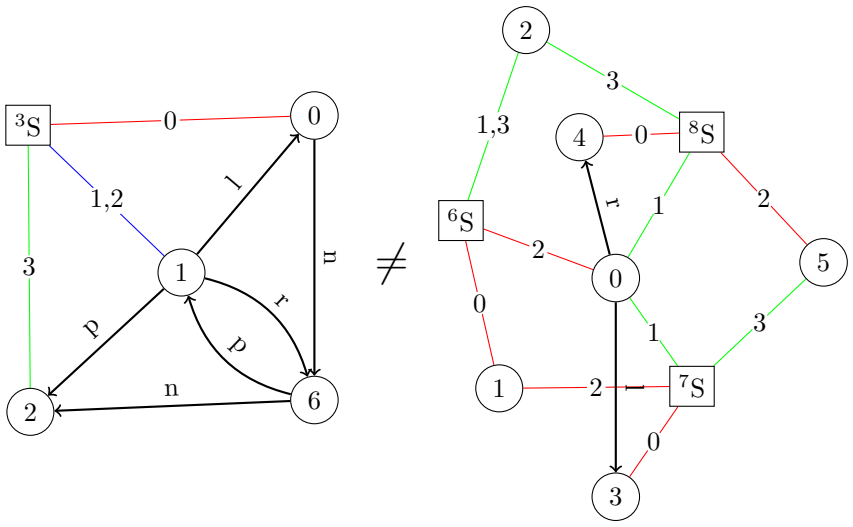
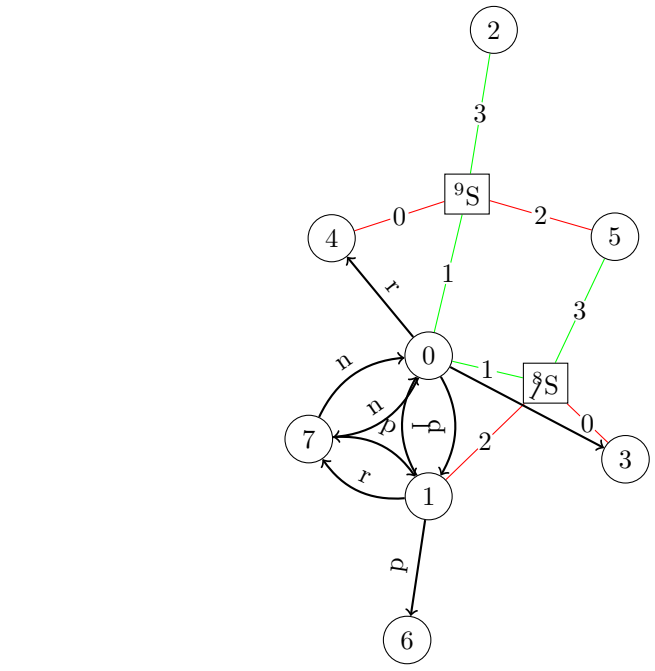
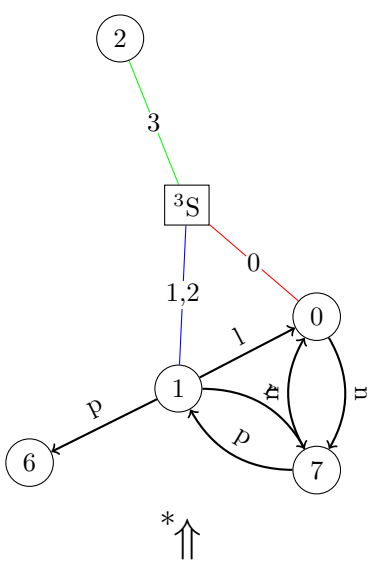


### 1.65 Critical Pair (Not Joinable)




1.6 2.9

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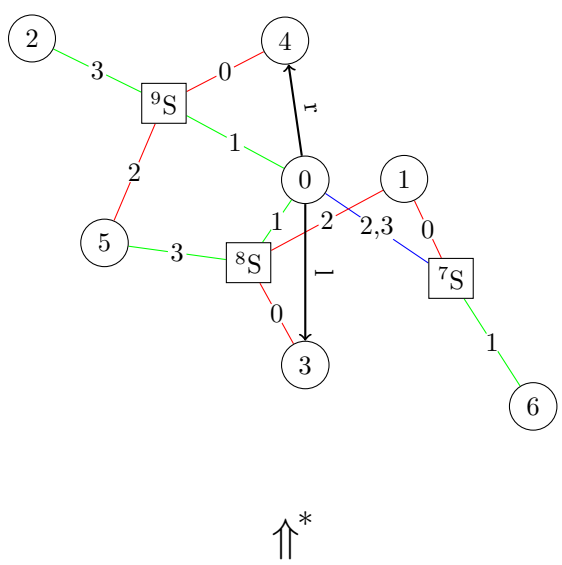


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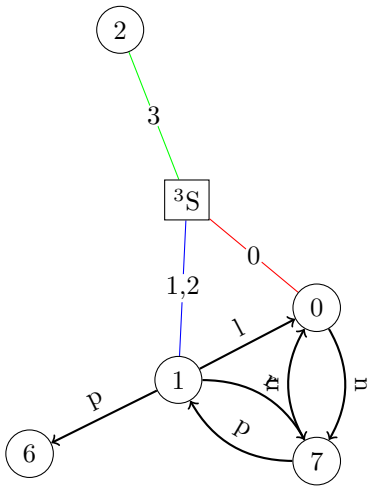


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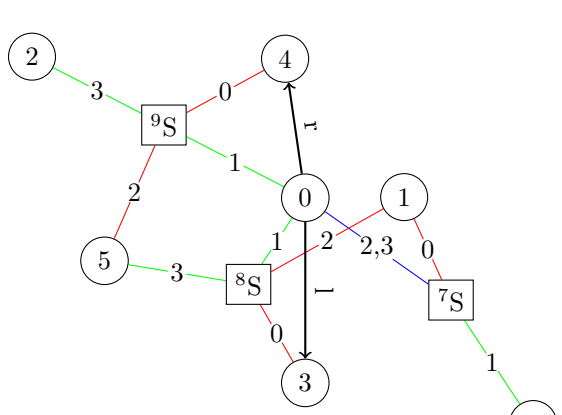
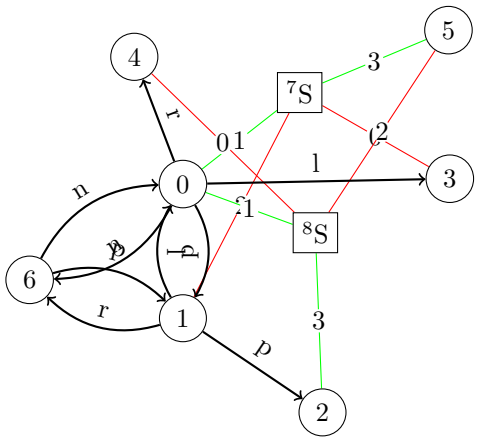
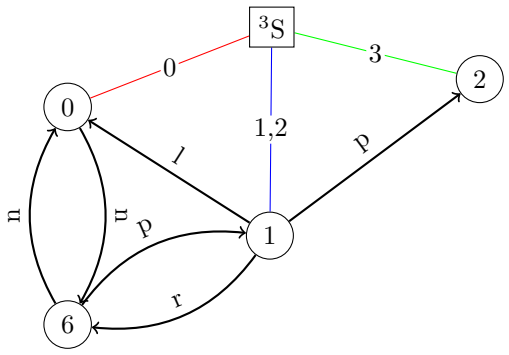


## 1.66 Critical Pair (Not Joinable)




1.6 ⇉ 2.9 ⇇

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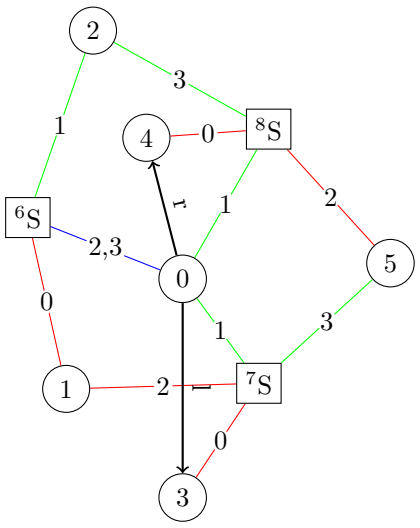


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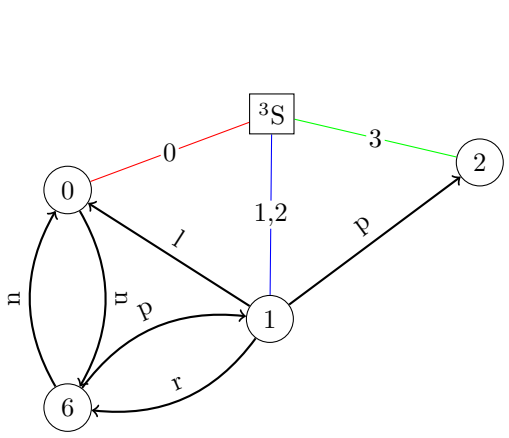


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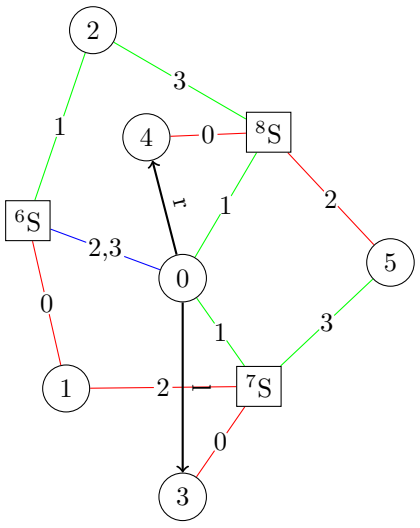
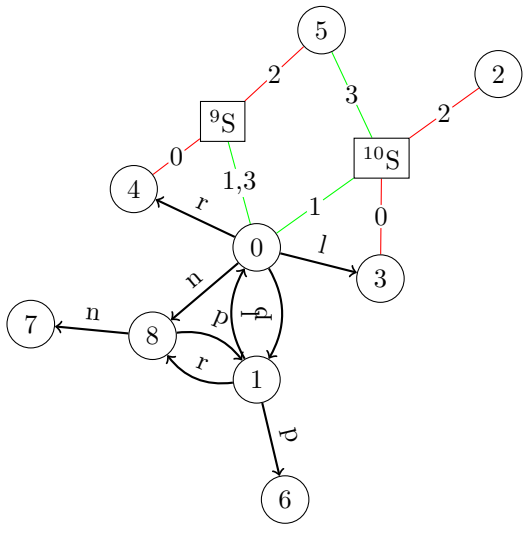
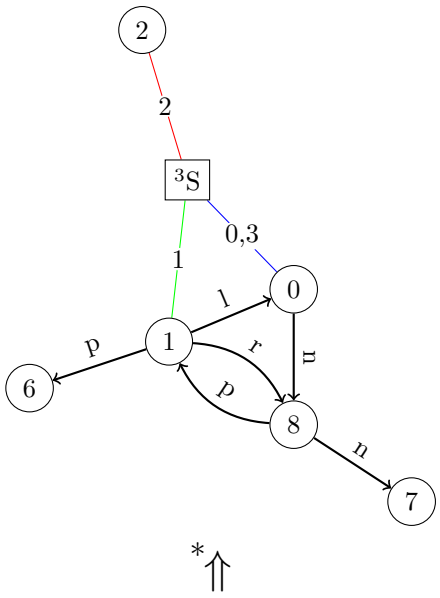


## 1.67 Critical Pair (Not Joinable)




1.7 ⇉ 2

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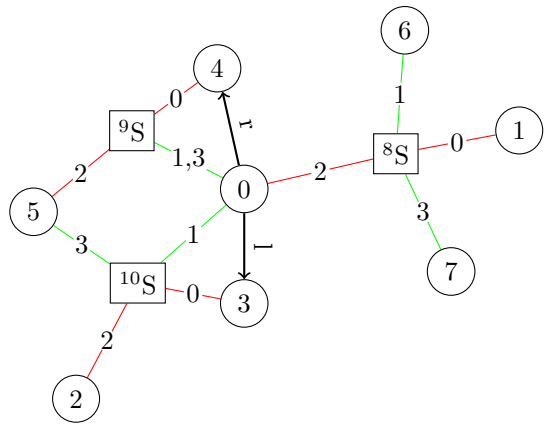


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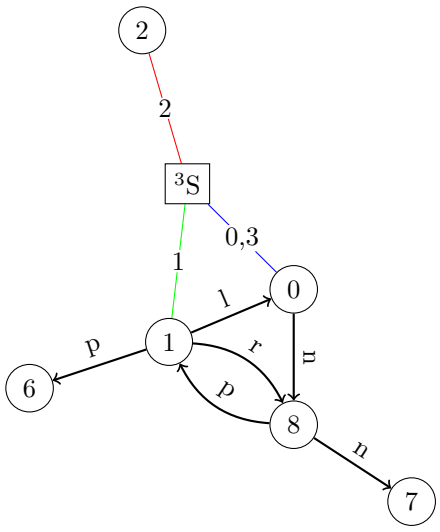
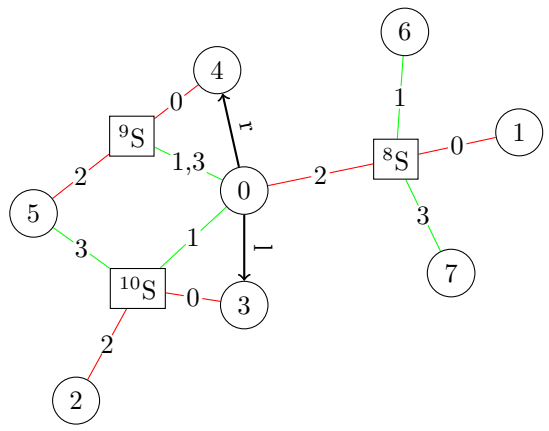
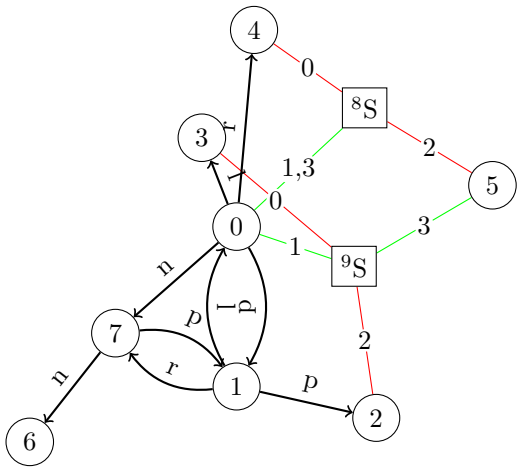
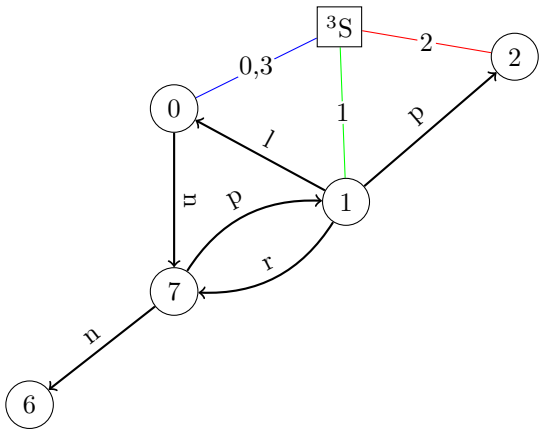


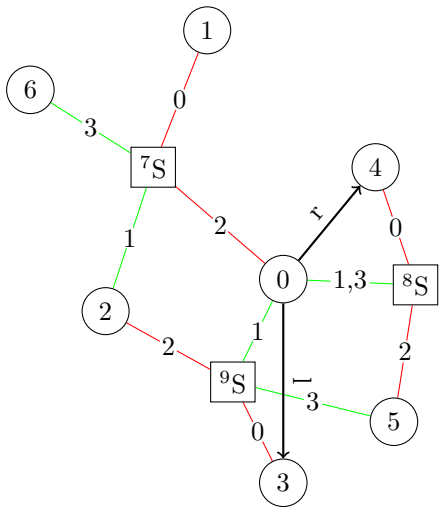



## 1.68 Critical Pair (Not Joinable)




1.7 ⇉ 2

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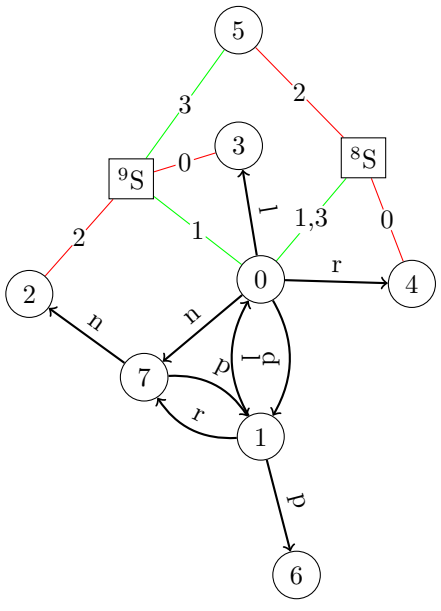
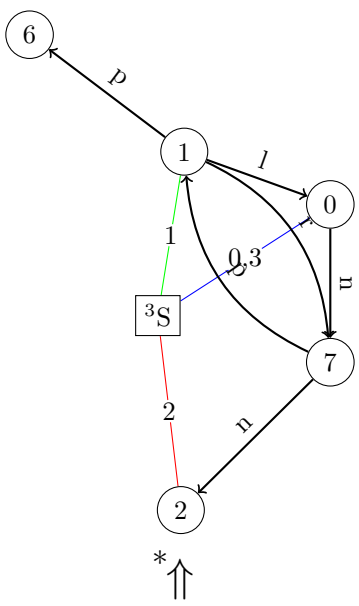
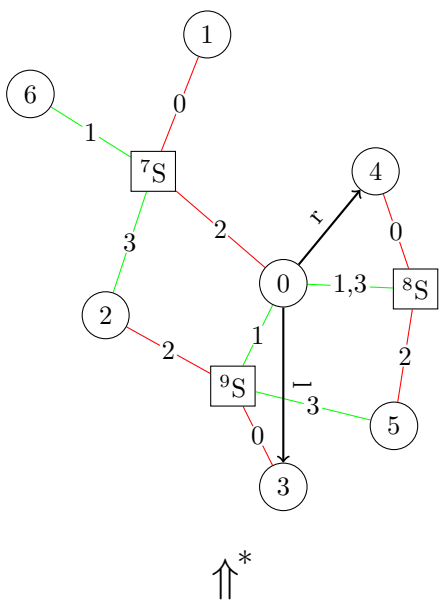
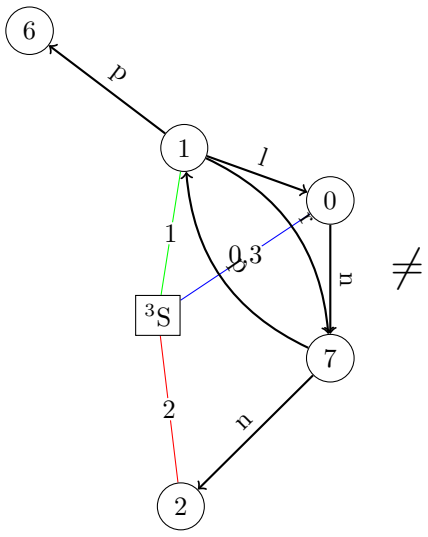
### 1.69 Critical Pair (Not Joinable)




1.7 ⇛ 2 ⇚

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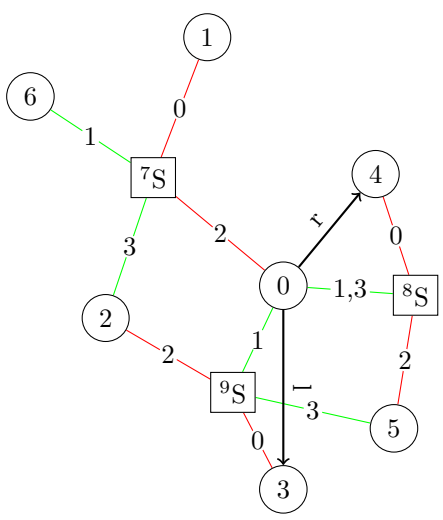
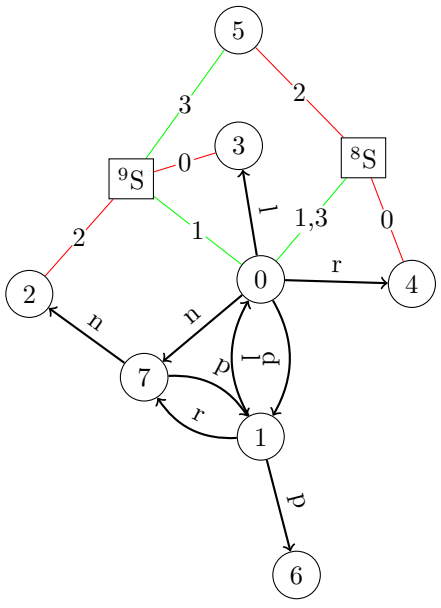
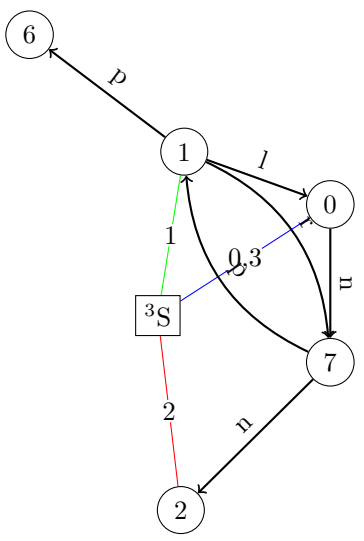


## 1.70 Critical Pair (Not Joinable)




1.7 ⇛ 2 ⇚

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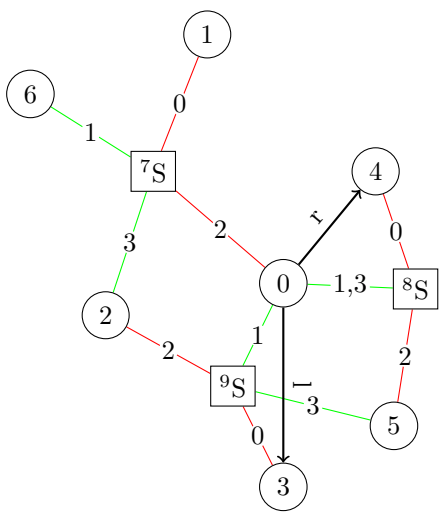


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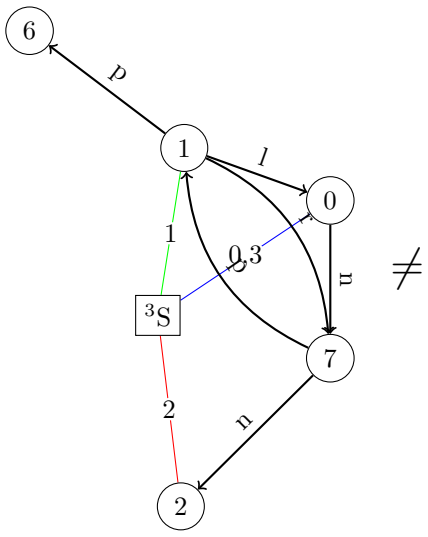


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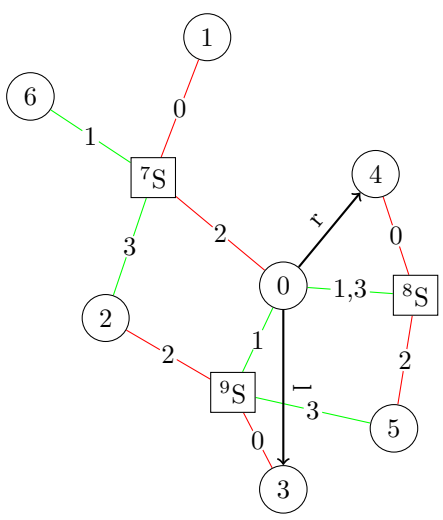
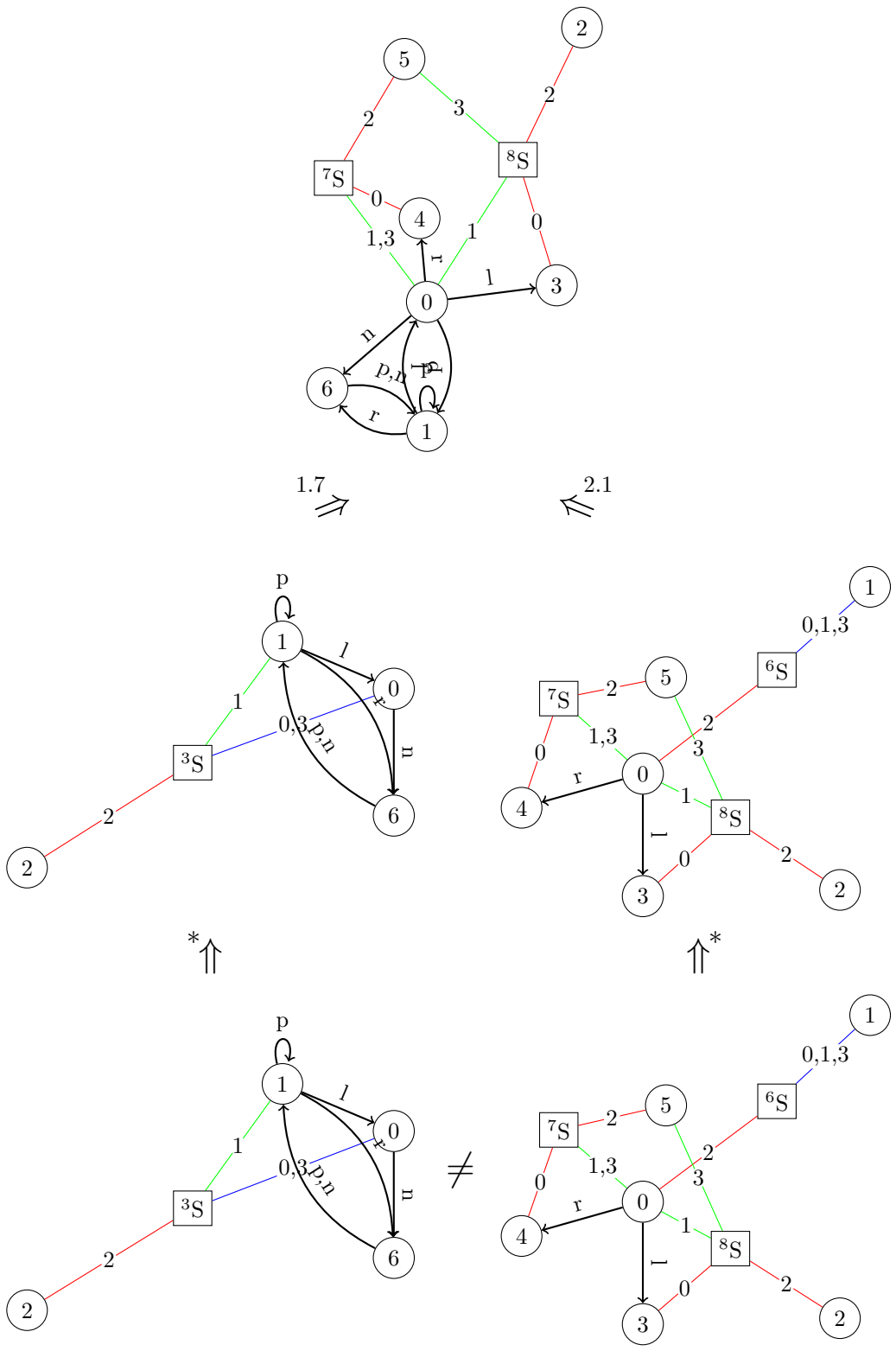
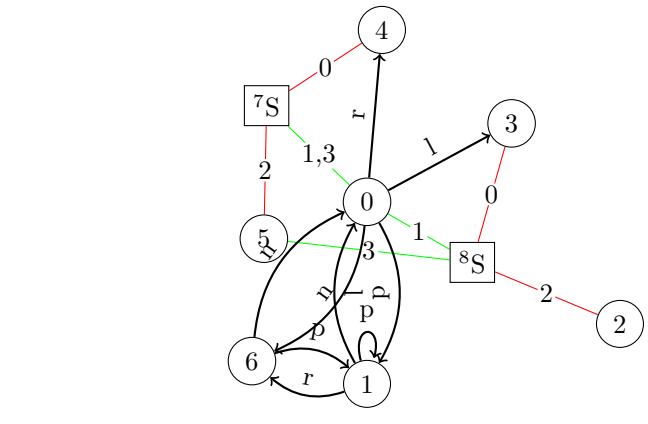


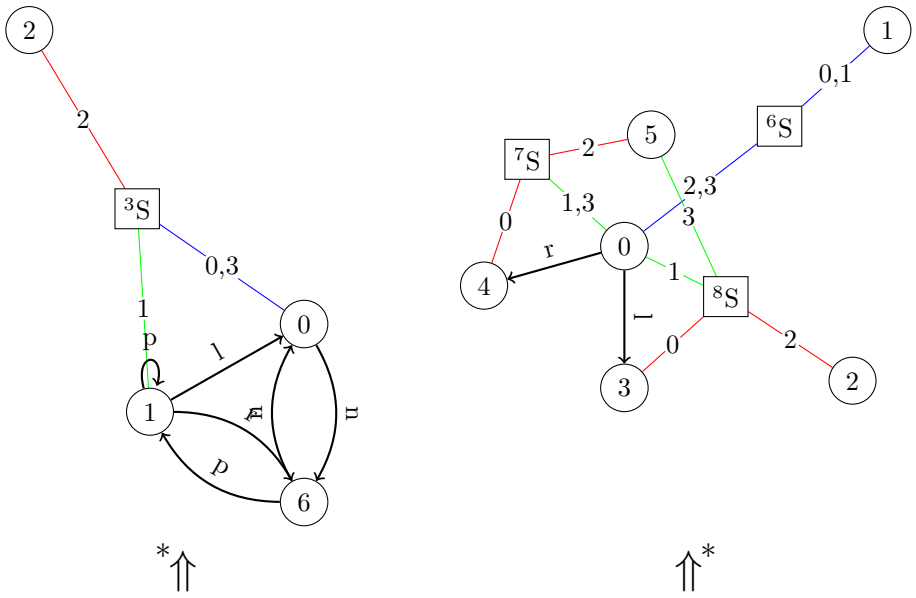
### 1.71 Critical Pair (Not Joinable)



### 1.72 Critical Pair (Not Joinable)




1.7 2.2

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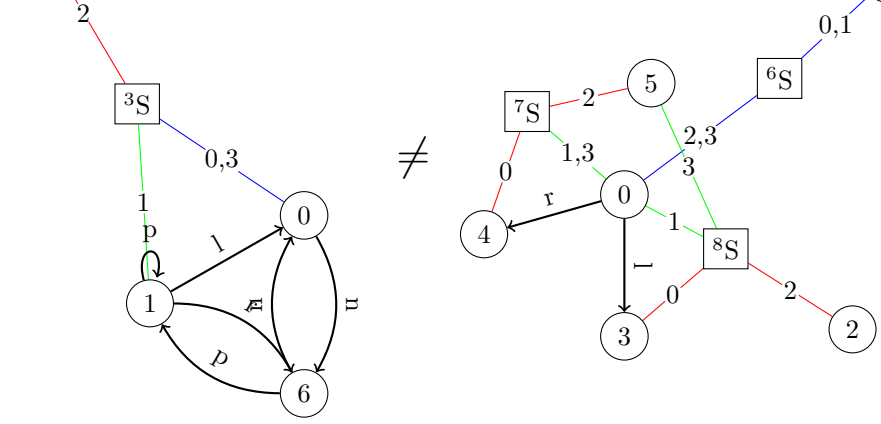
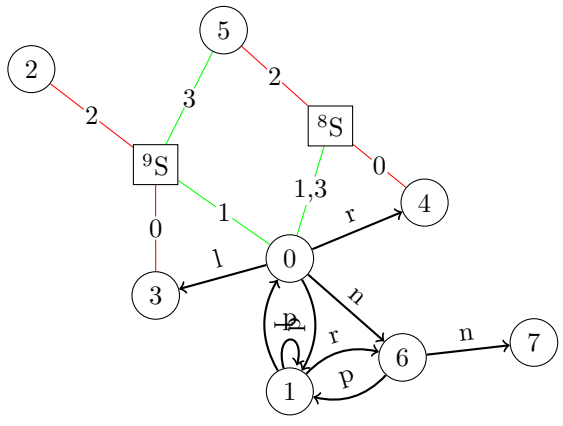
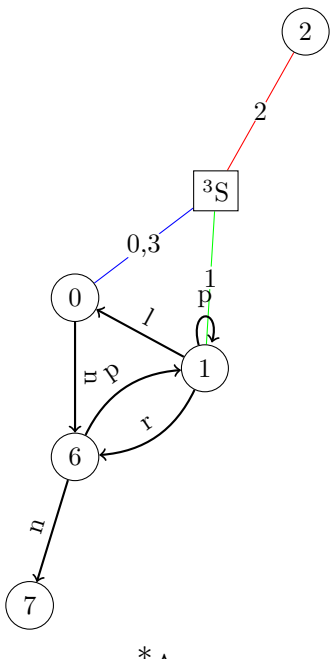


### 1.73 Critical Pair (Not Joinable)




1.7 2.3

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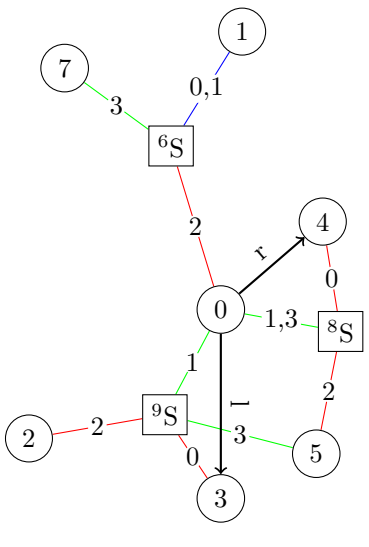


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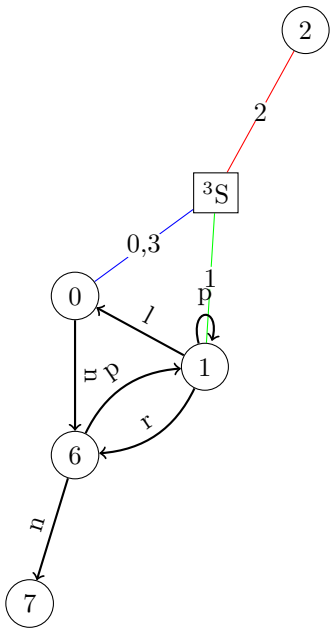


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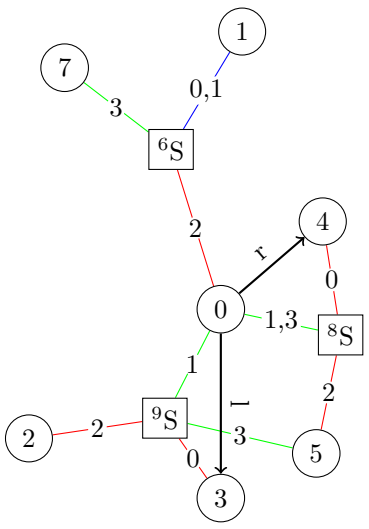
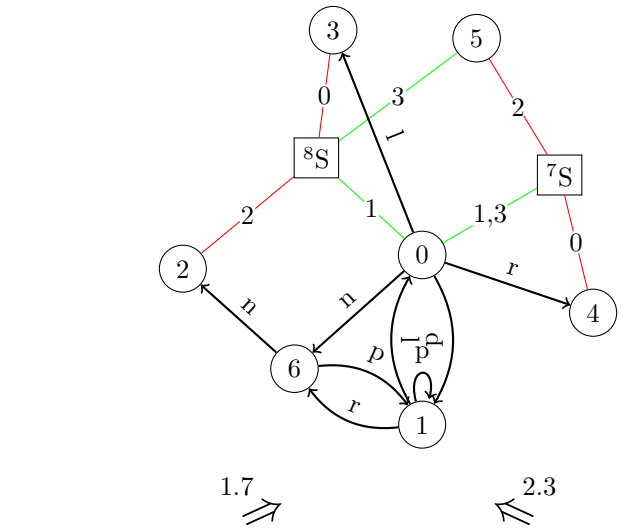
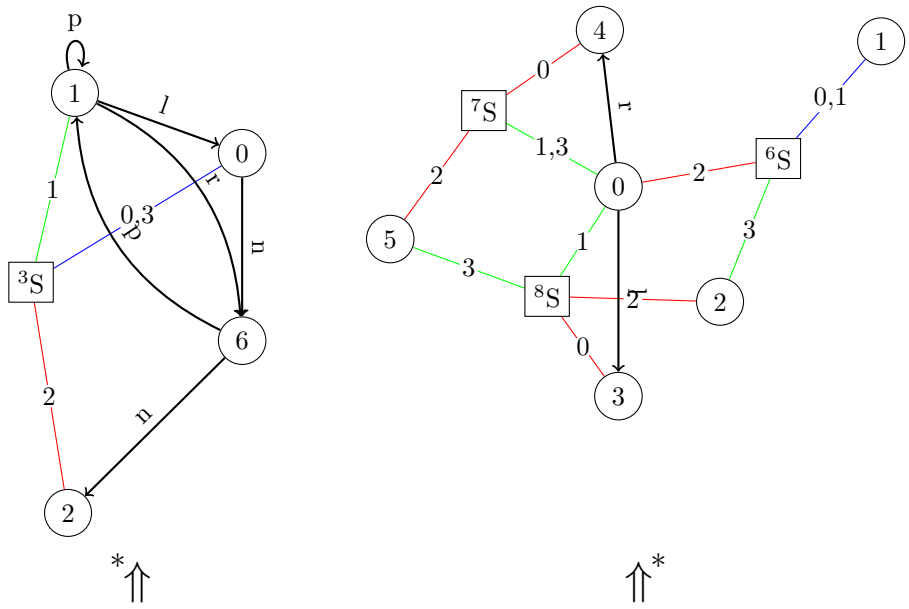


## 1.74 Critical Pair (Not Joinable)




1.7 ⇛ 2.3 ⇚

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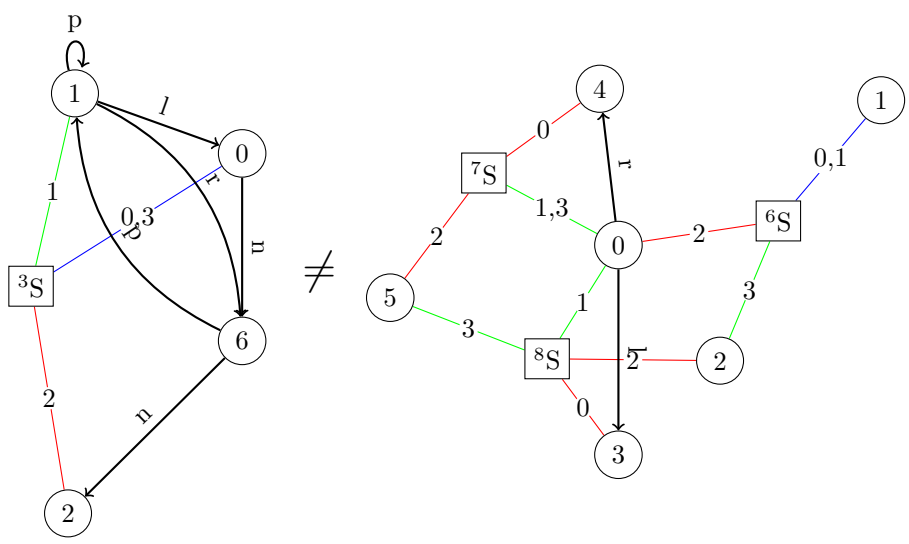
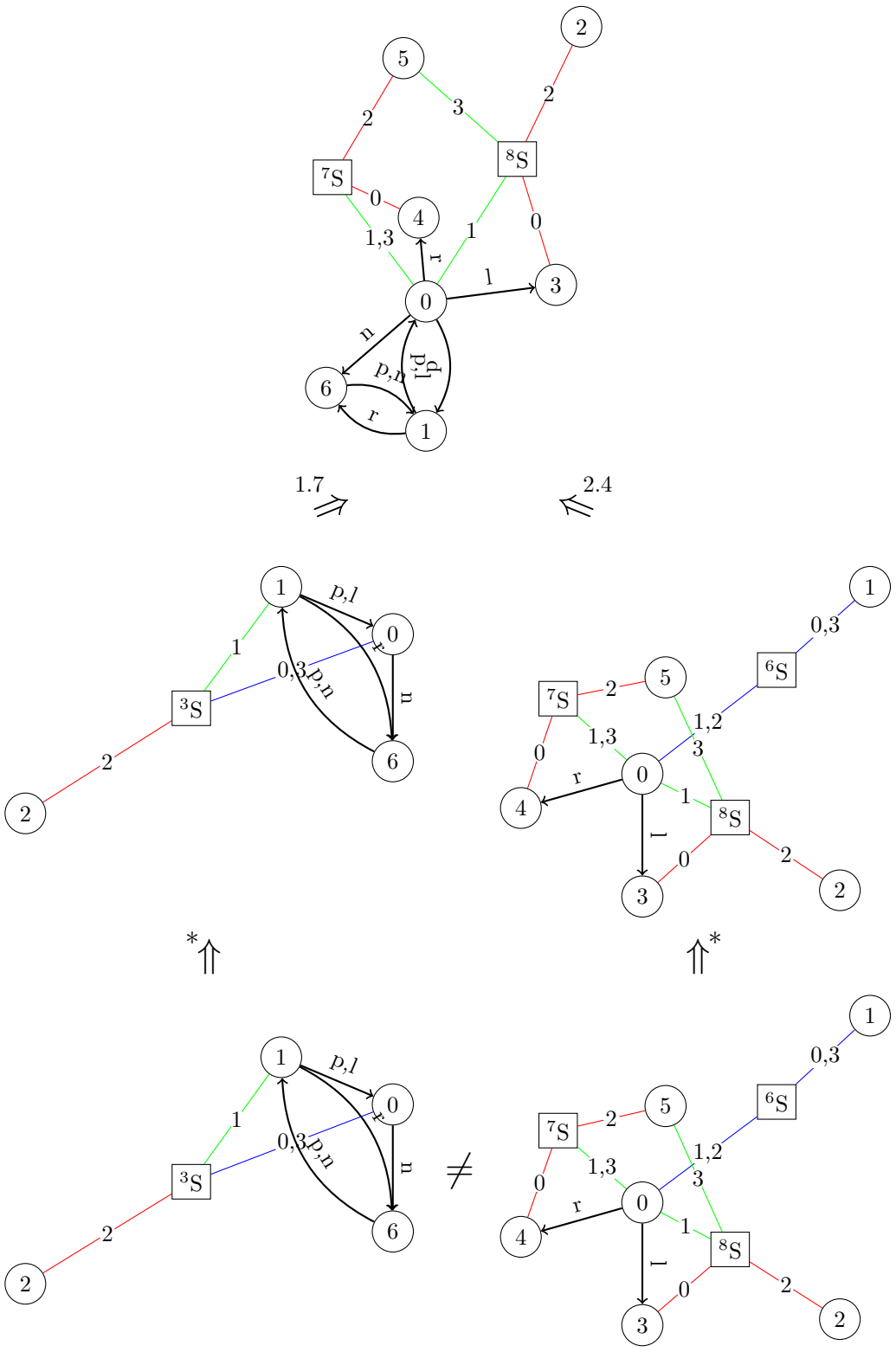
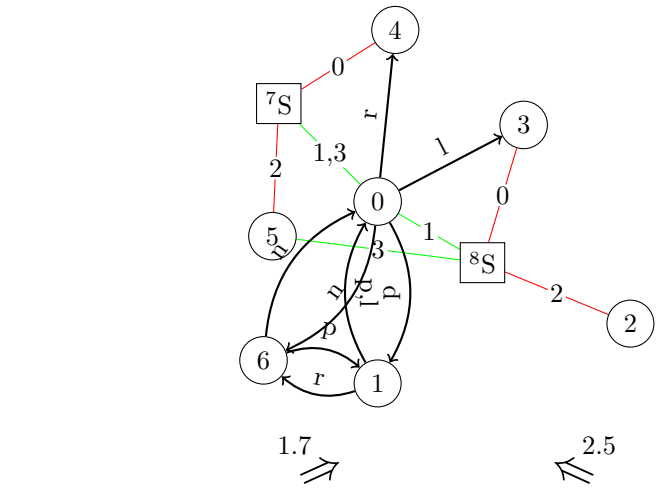


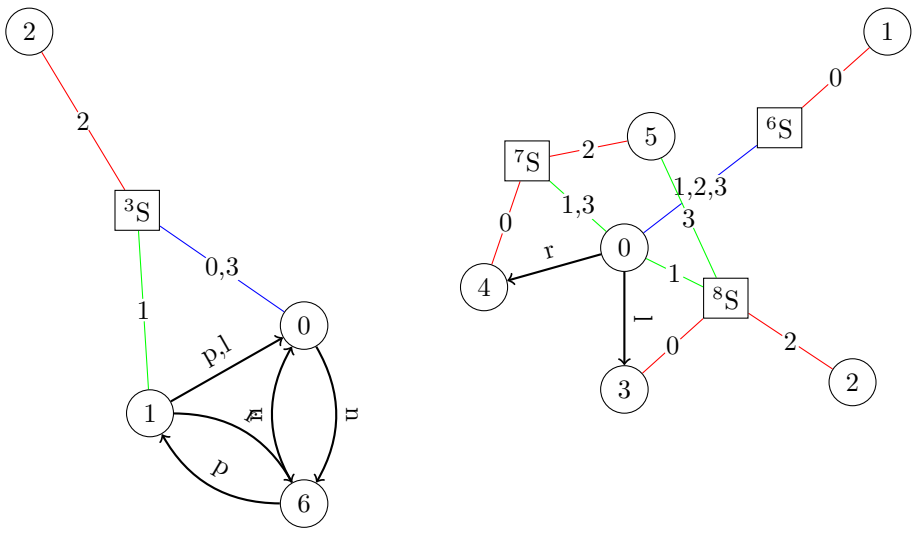
## 1.75 Critical Pair (Not Joinable)



## 1.76 Critical Pair (Not Joinable)




1.7 ⇉ 2.5 ⇇

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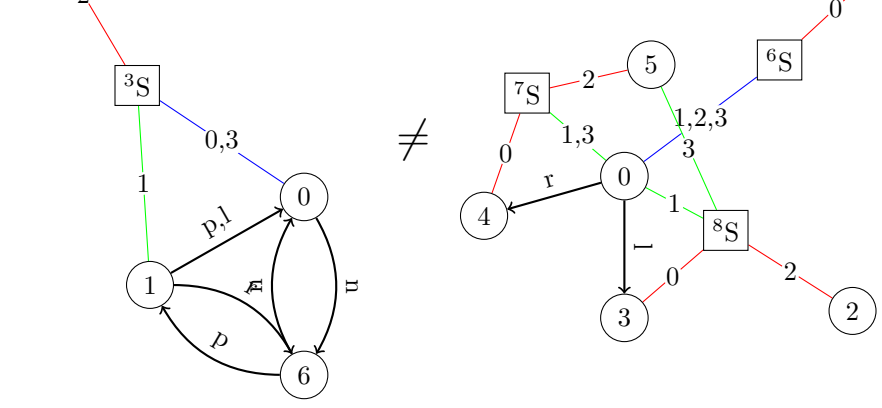
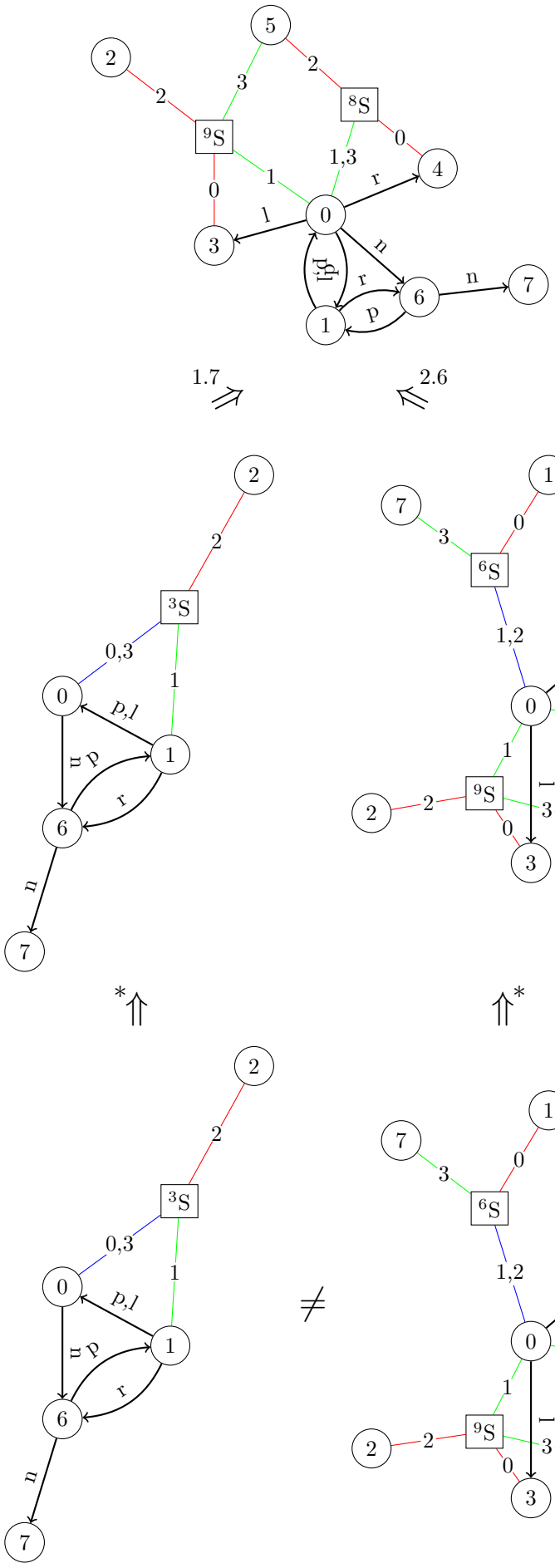
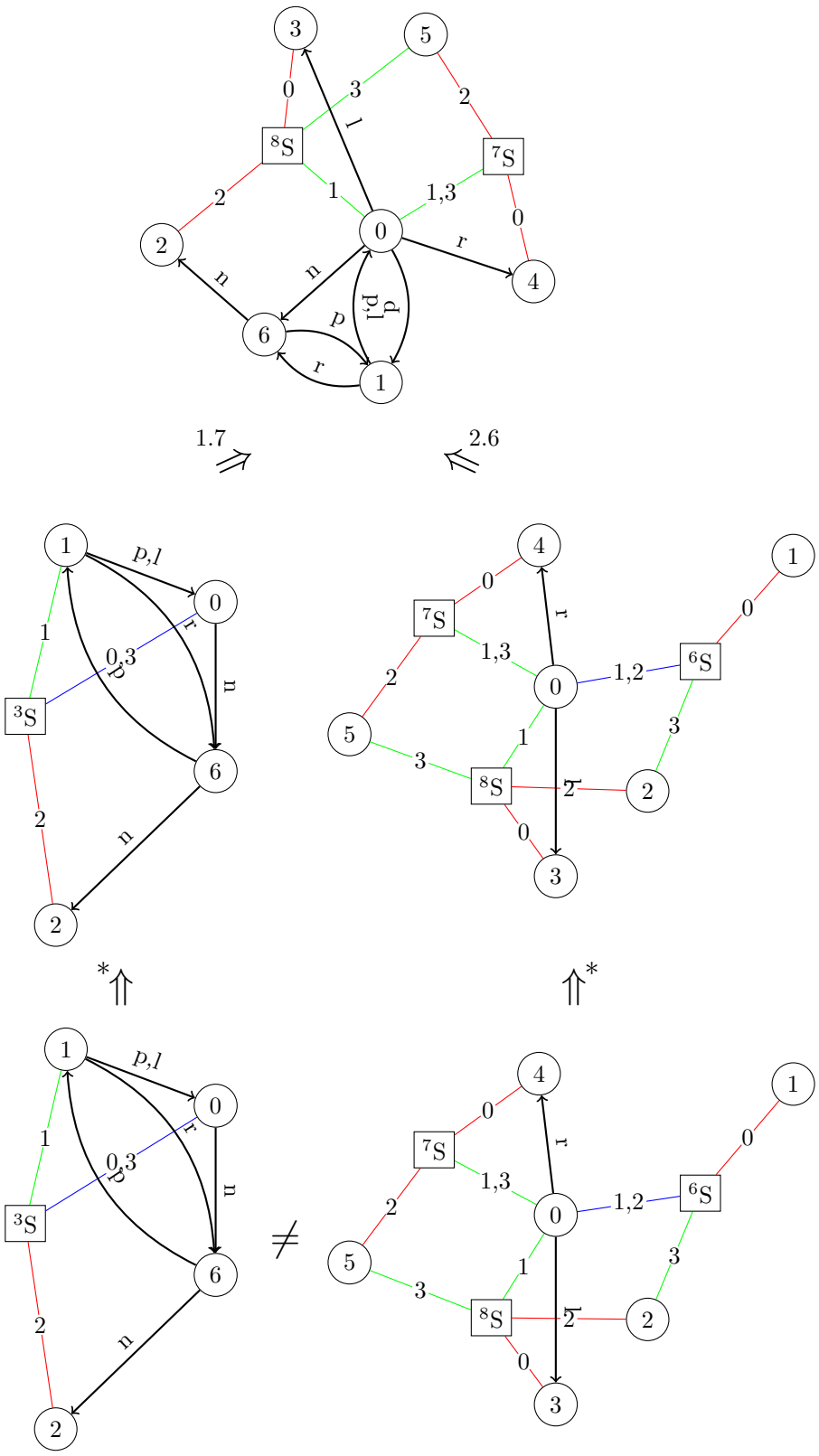


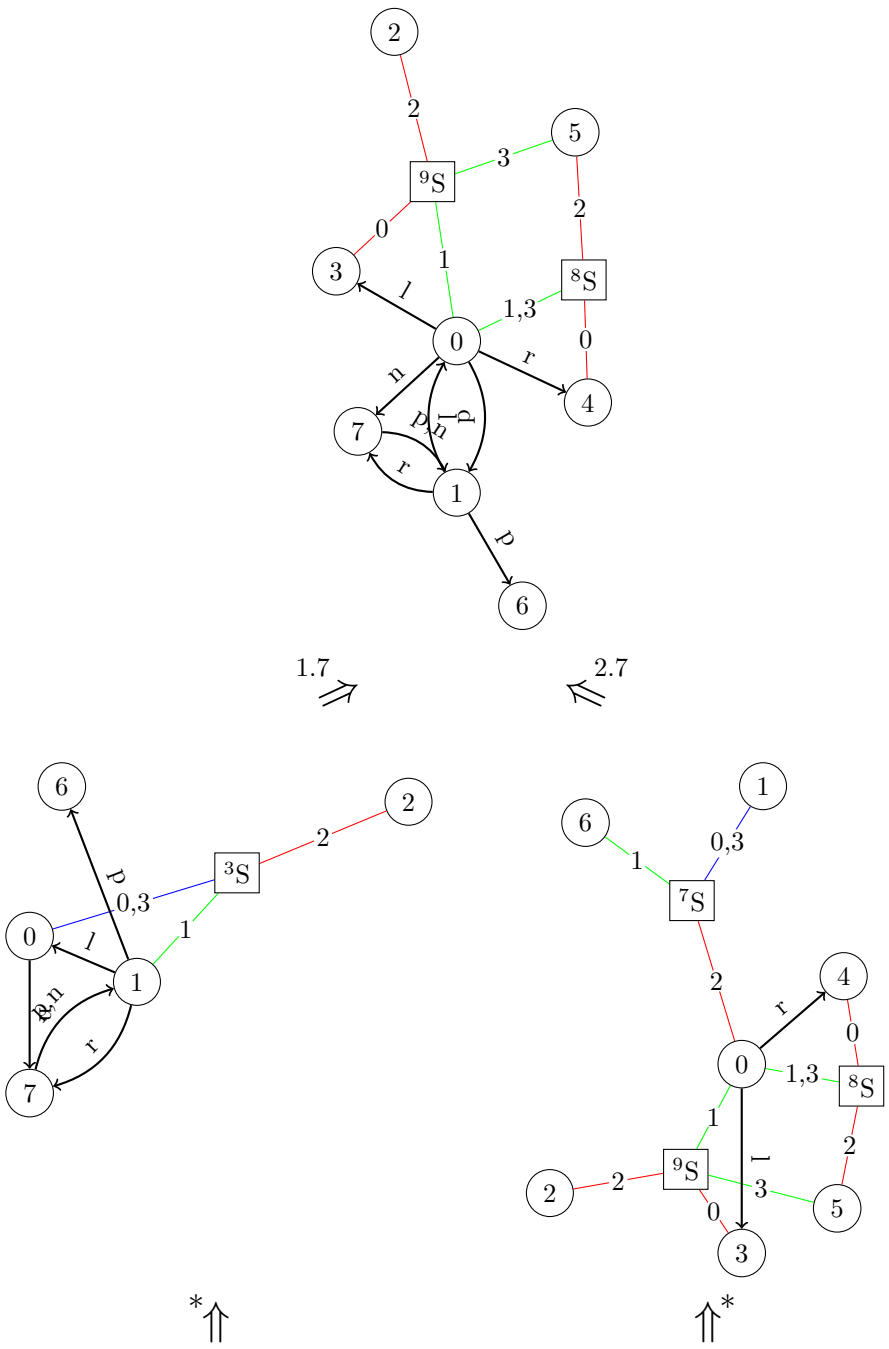
### 1.77 Critical Pair (Not Joinable)

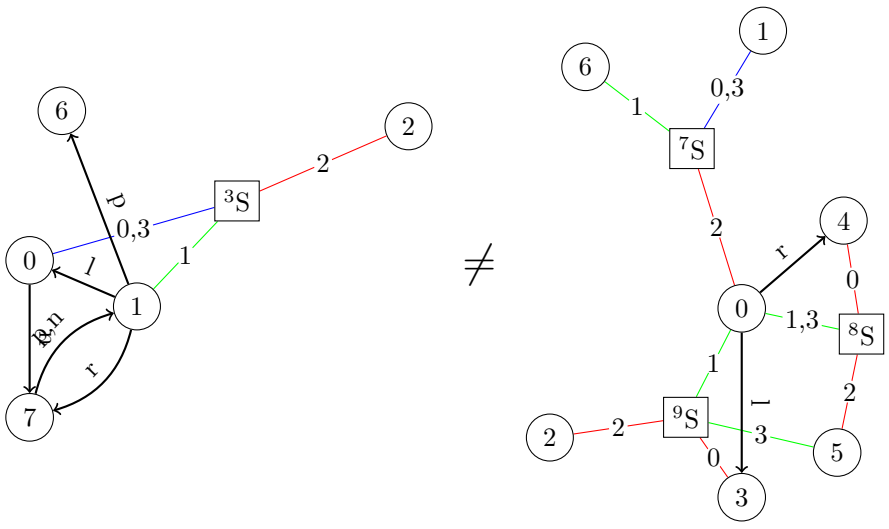


### 1.78 Critical Pair (Not Joinable)

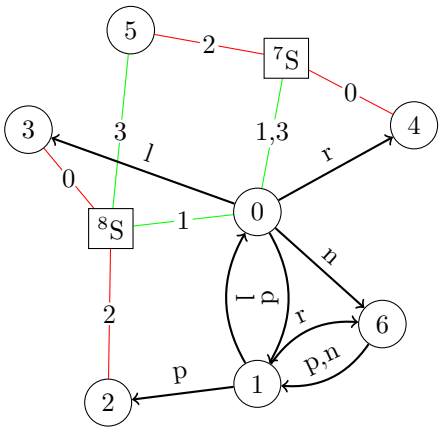


## 1.79 Critical Pair (Not Joinable)

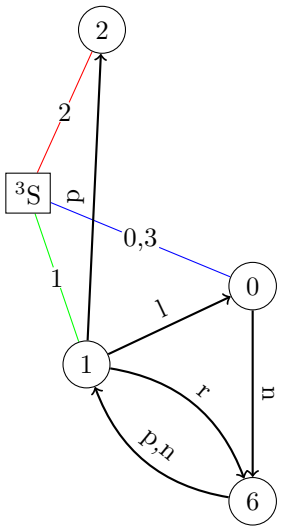


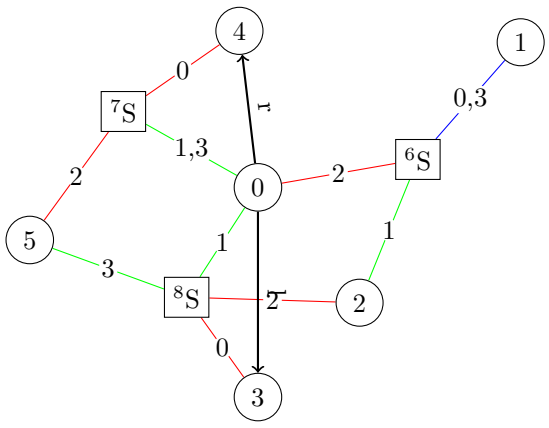



## 1.80 Critical Pair (Not Joinable)




1.7 2.7

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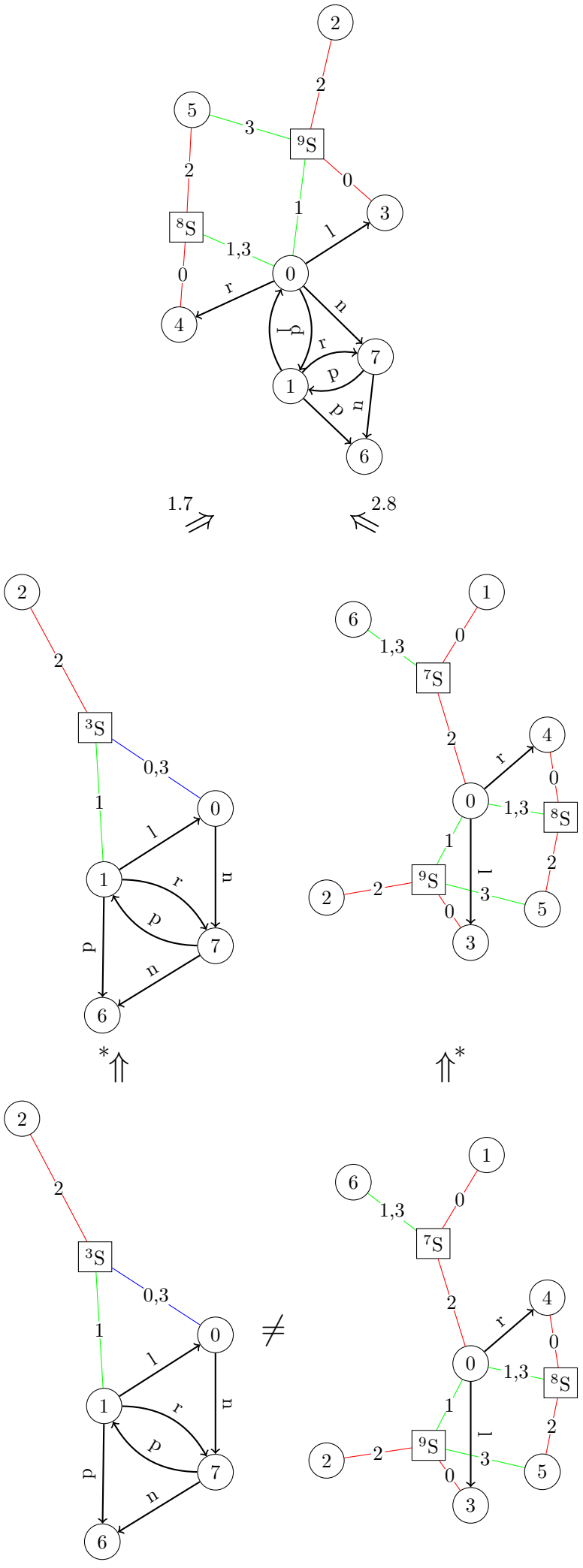
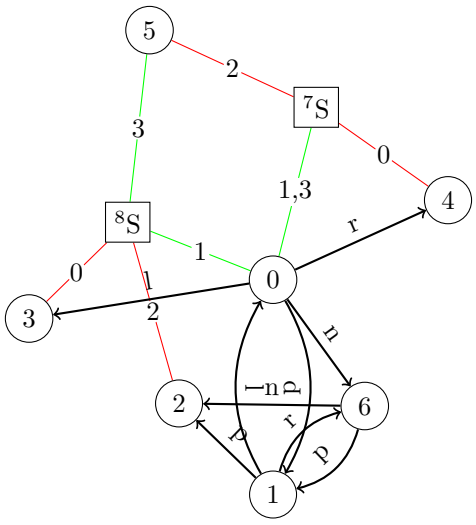
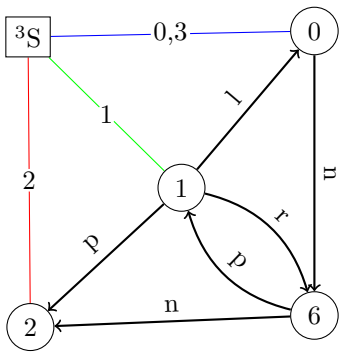
### 1.81 Critical Pair (Not Joinable)

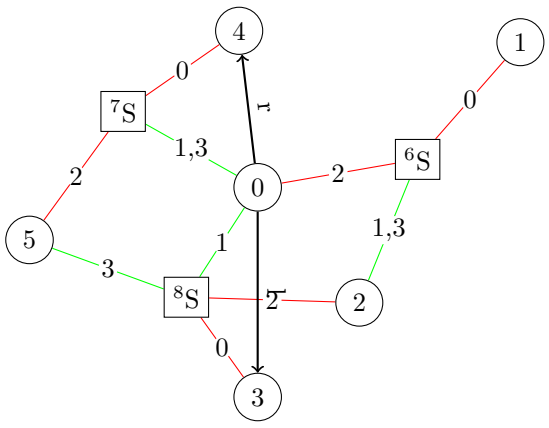


## 1.82 Critical Pair (Not Joinable)




1.7 2.8

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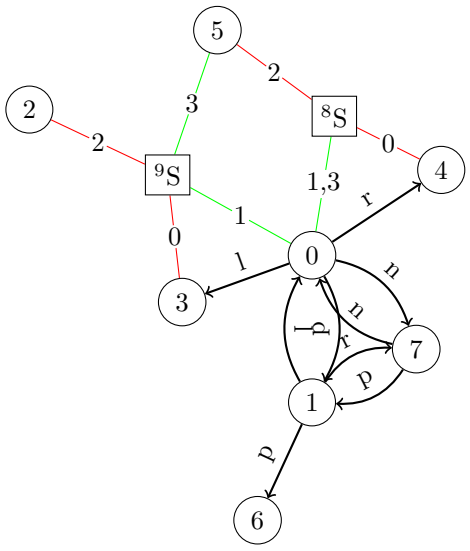
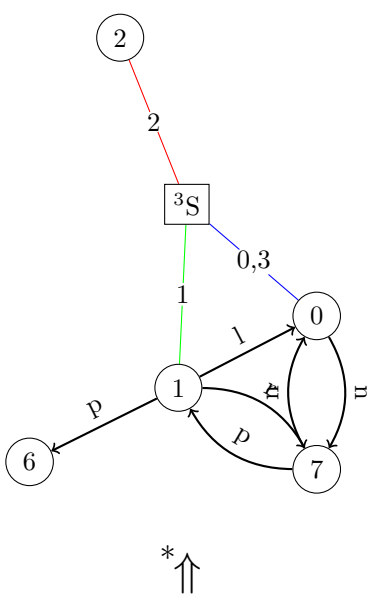
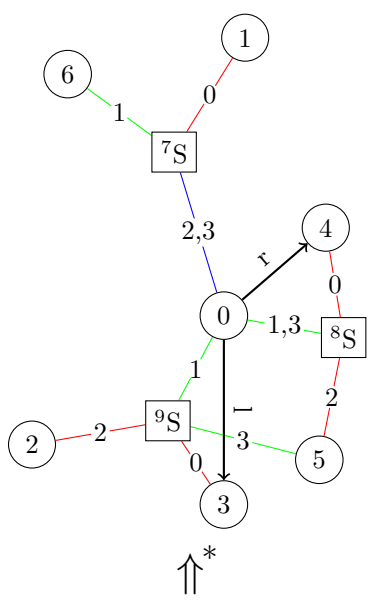
## 1.83 Critical Pair (Not Joinable)




1.7 2.9

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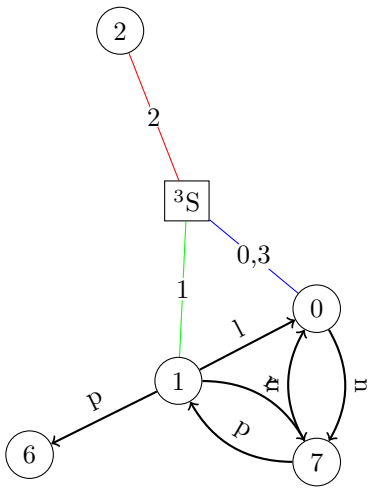
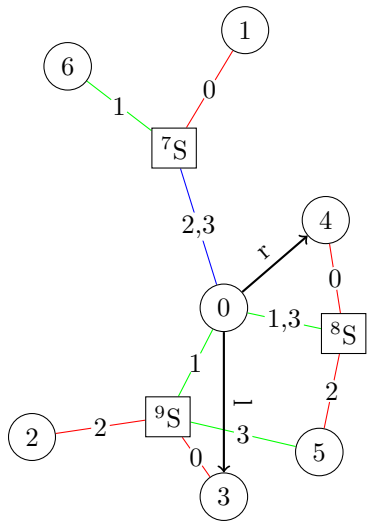
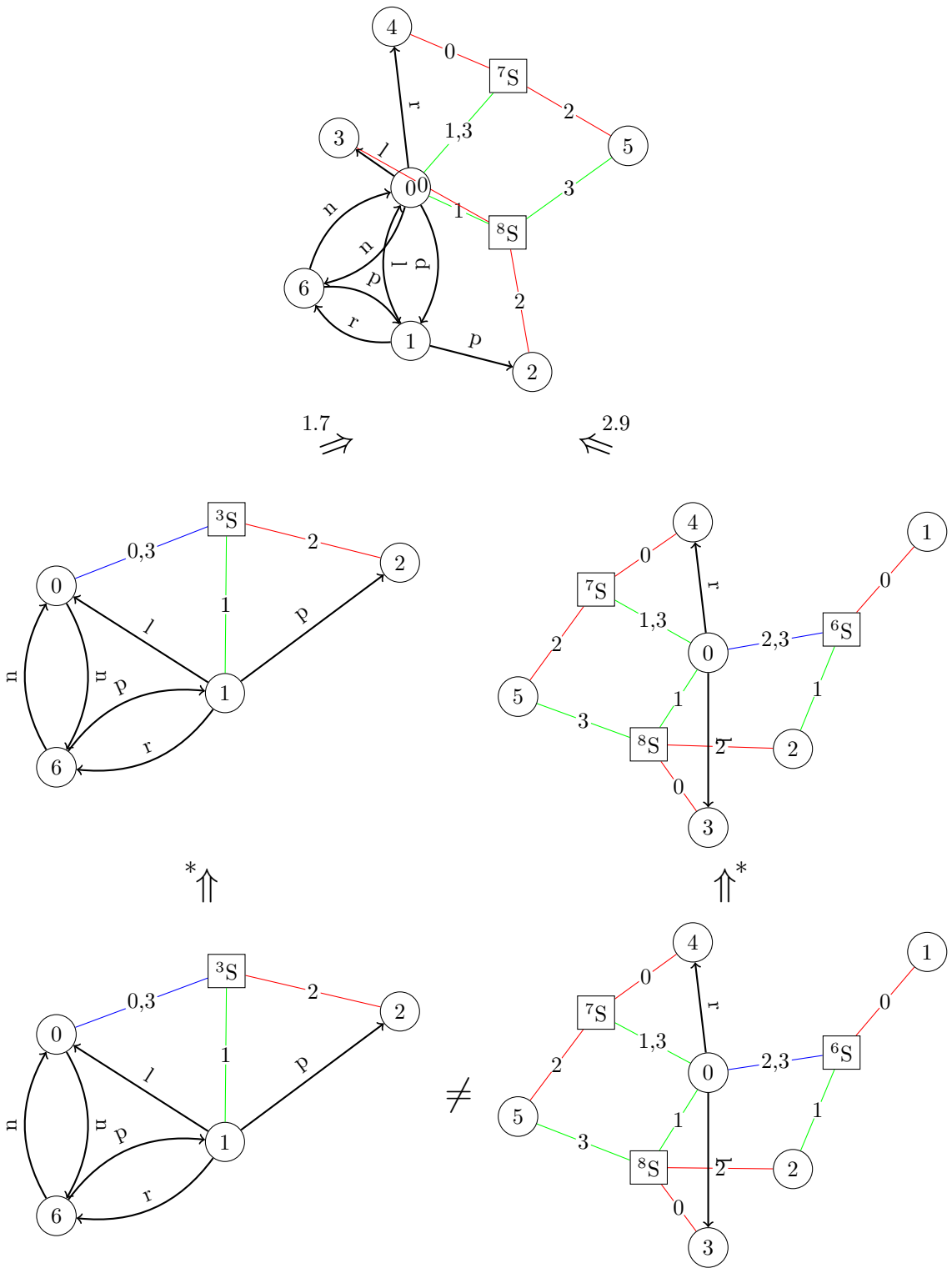
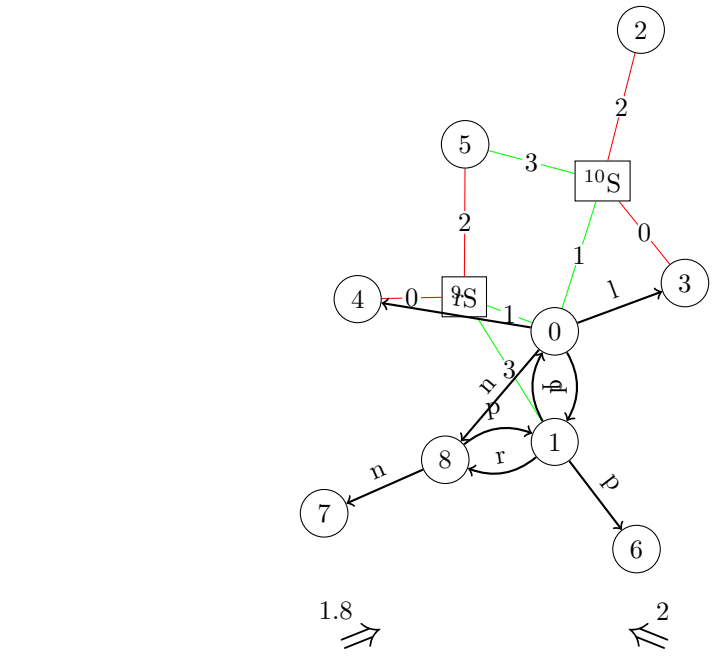


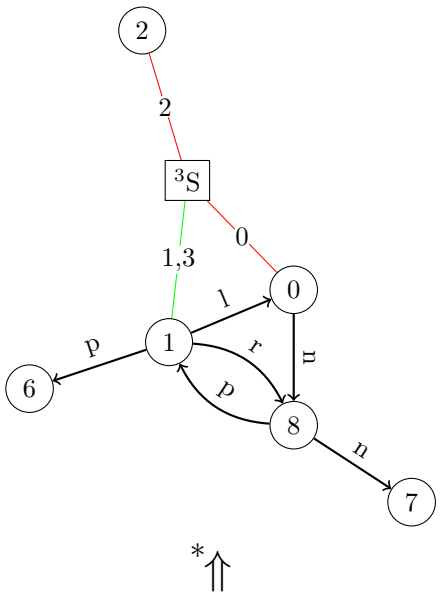



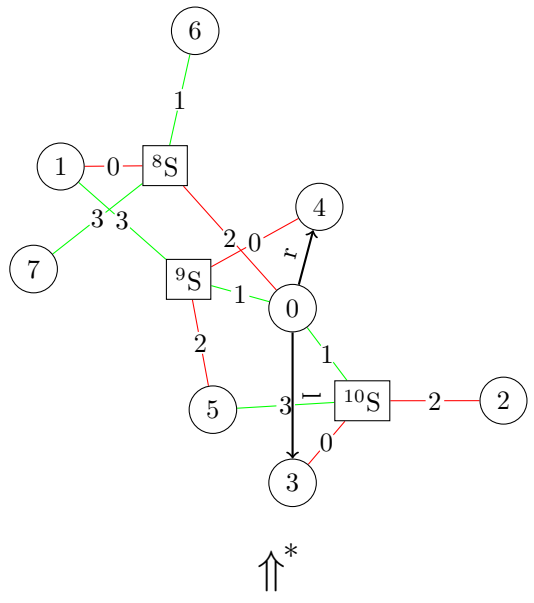
## 1.84 Critical Pair (Not Joinable)



## 1.85 Critical Pair (Not Joinable)

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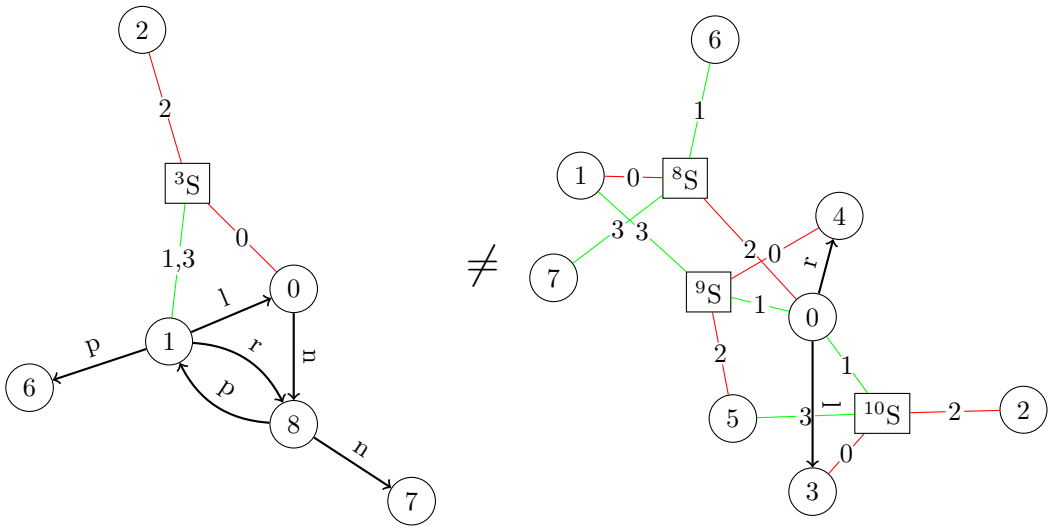
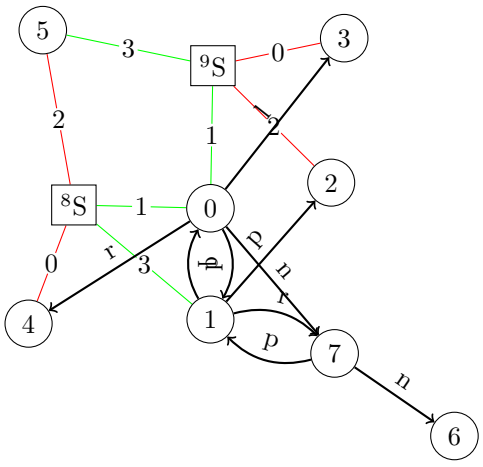
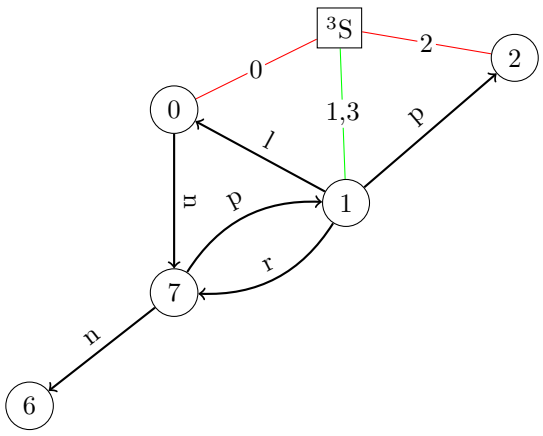
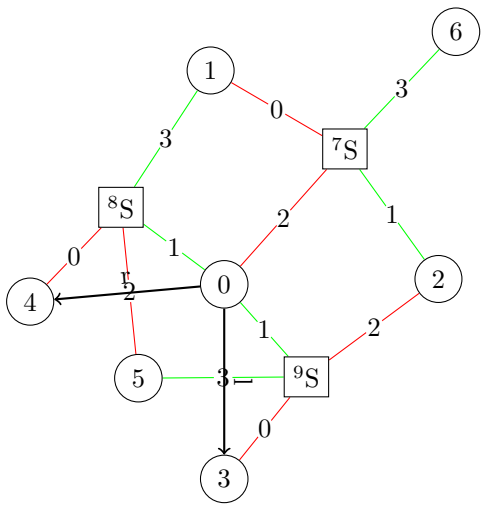


## 1.86 Critical Pair (Not Joinable)




1.8 ⇛ ⇖ 2

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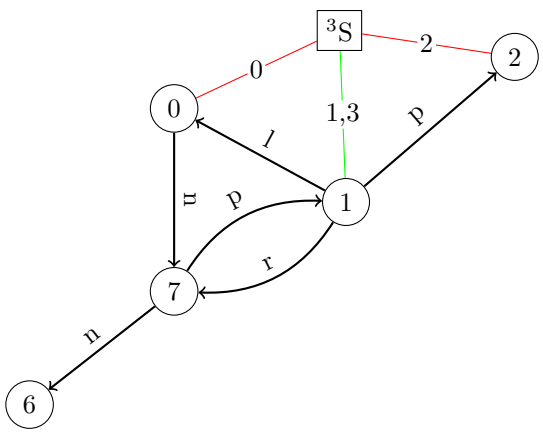


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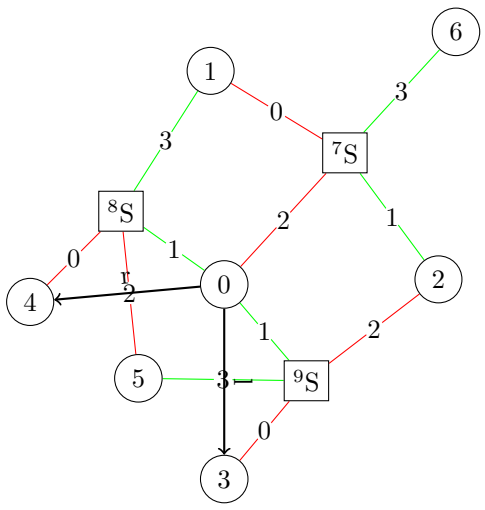
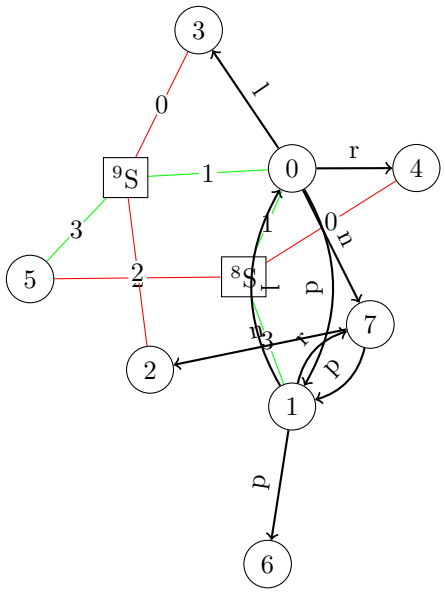
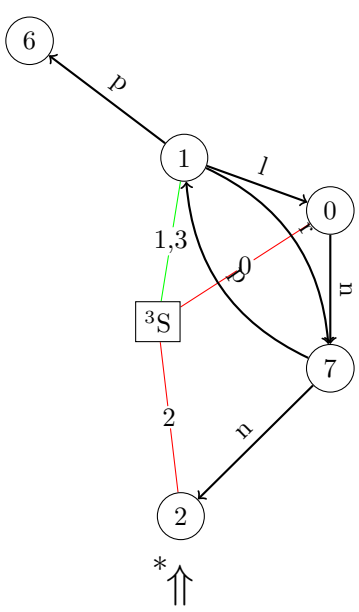
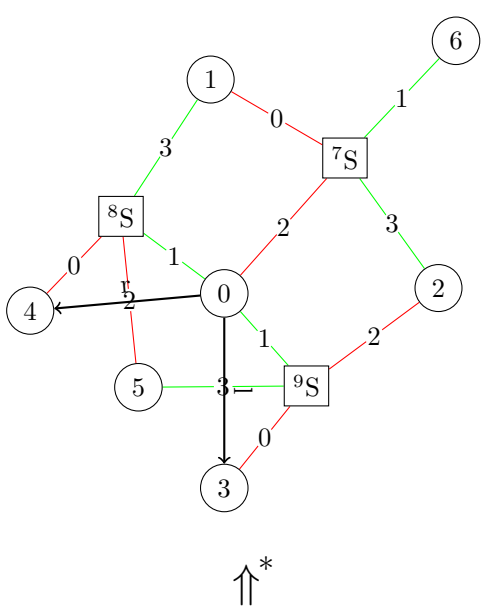


## 1.87 Critical Pair (Not Joinable)




1.8 2

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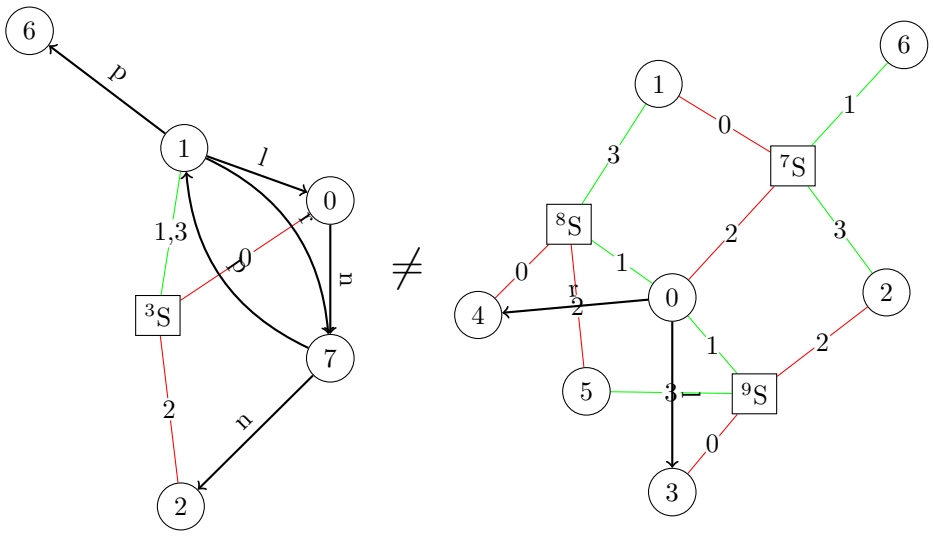
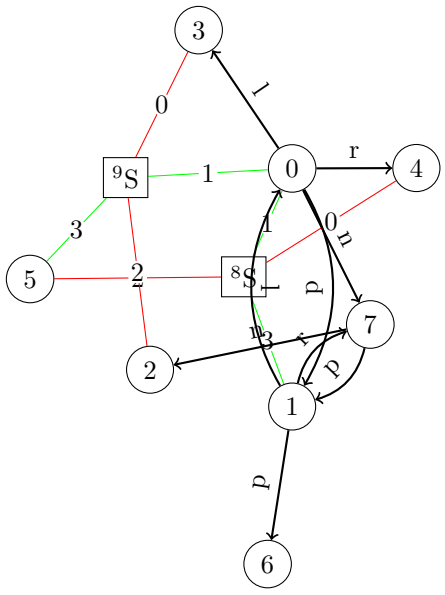
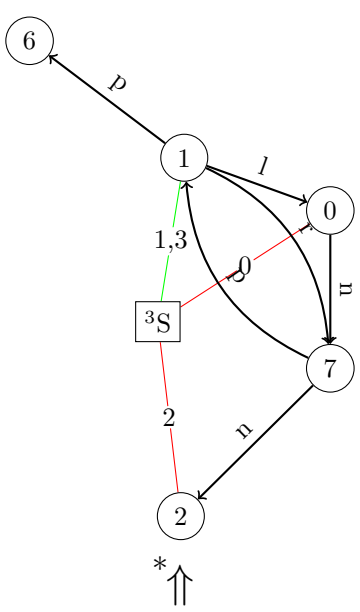


## 1.88 Critical Pair (Not Joinable)




1.8 ⇉ 2 ⇇

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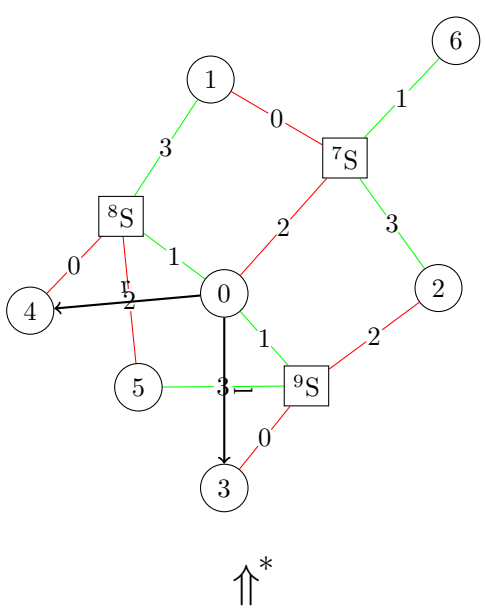


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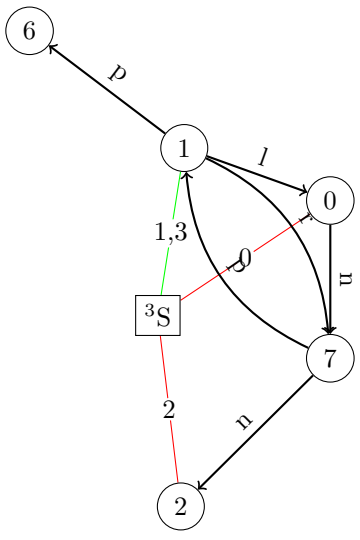


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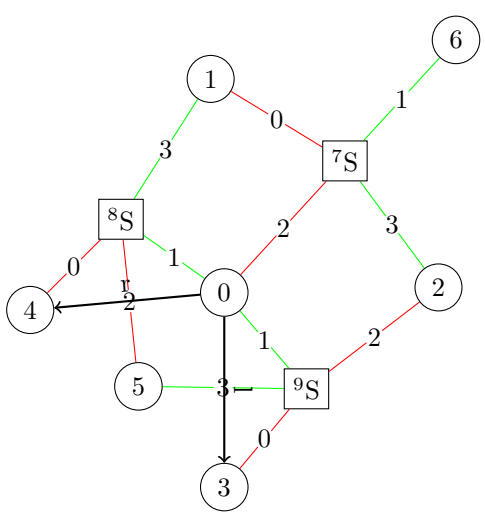
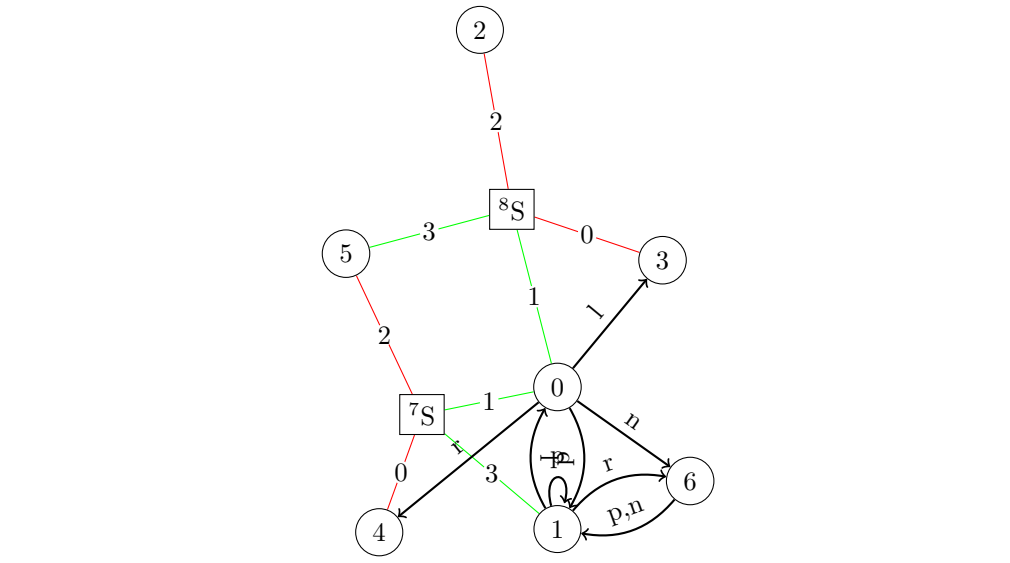
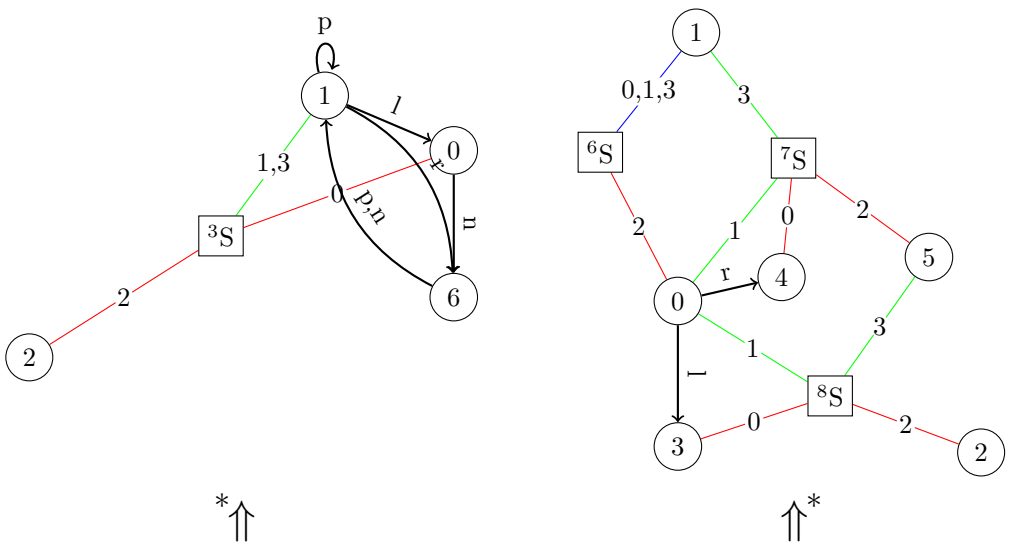
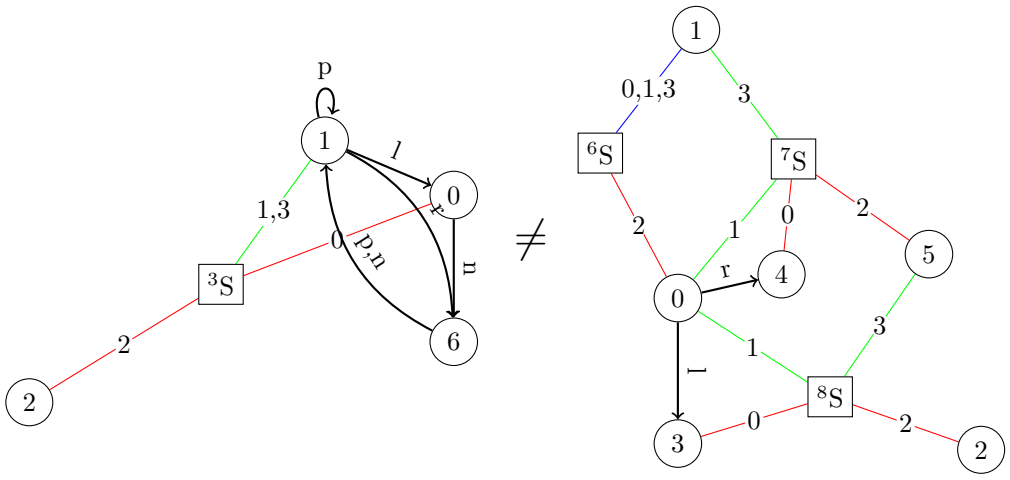


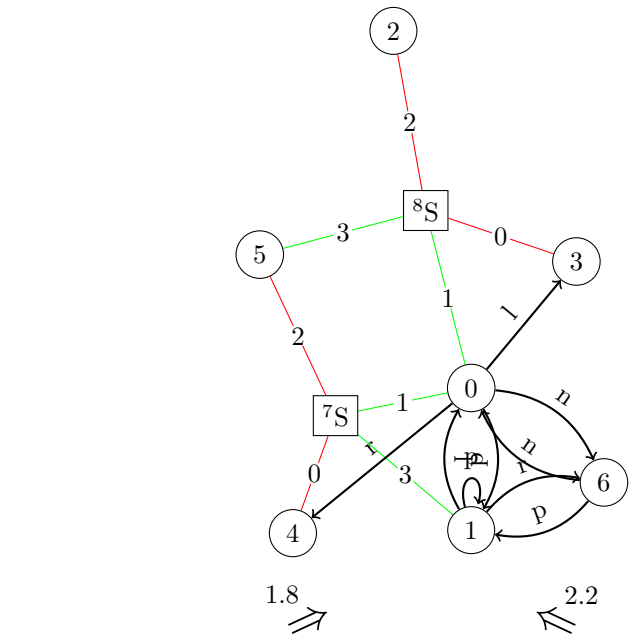
## 1.89 Critical Pair (Not Joinable)

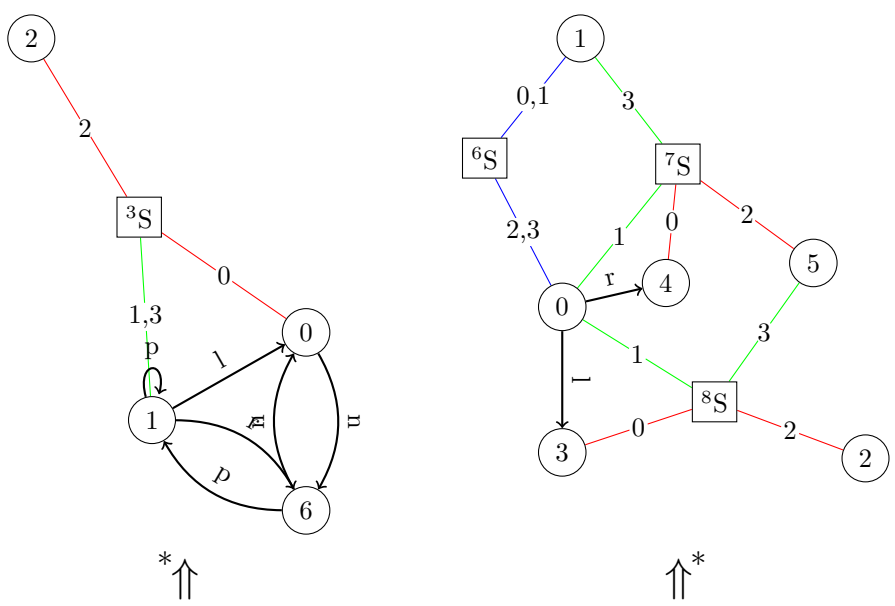


## 1.90 Critical Pair (Not Joinable)

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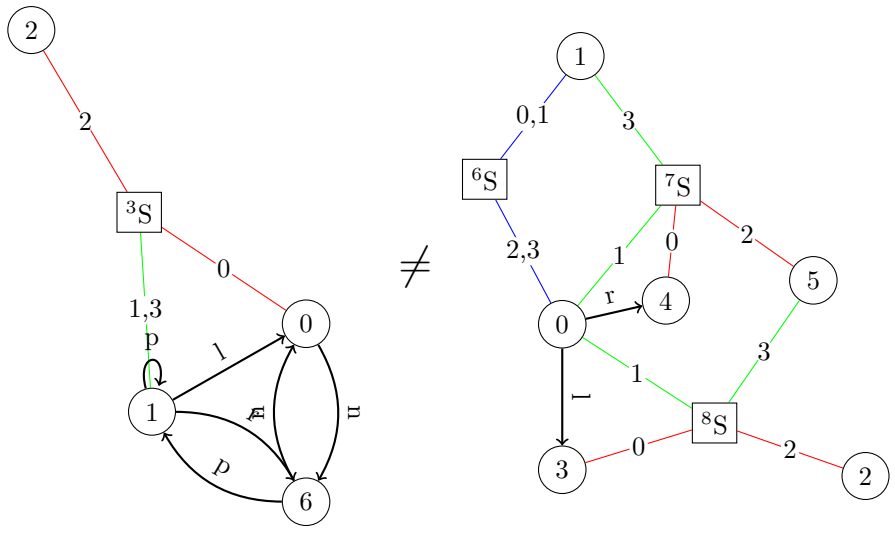
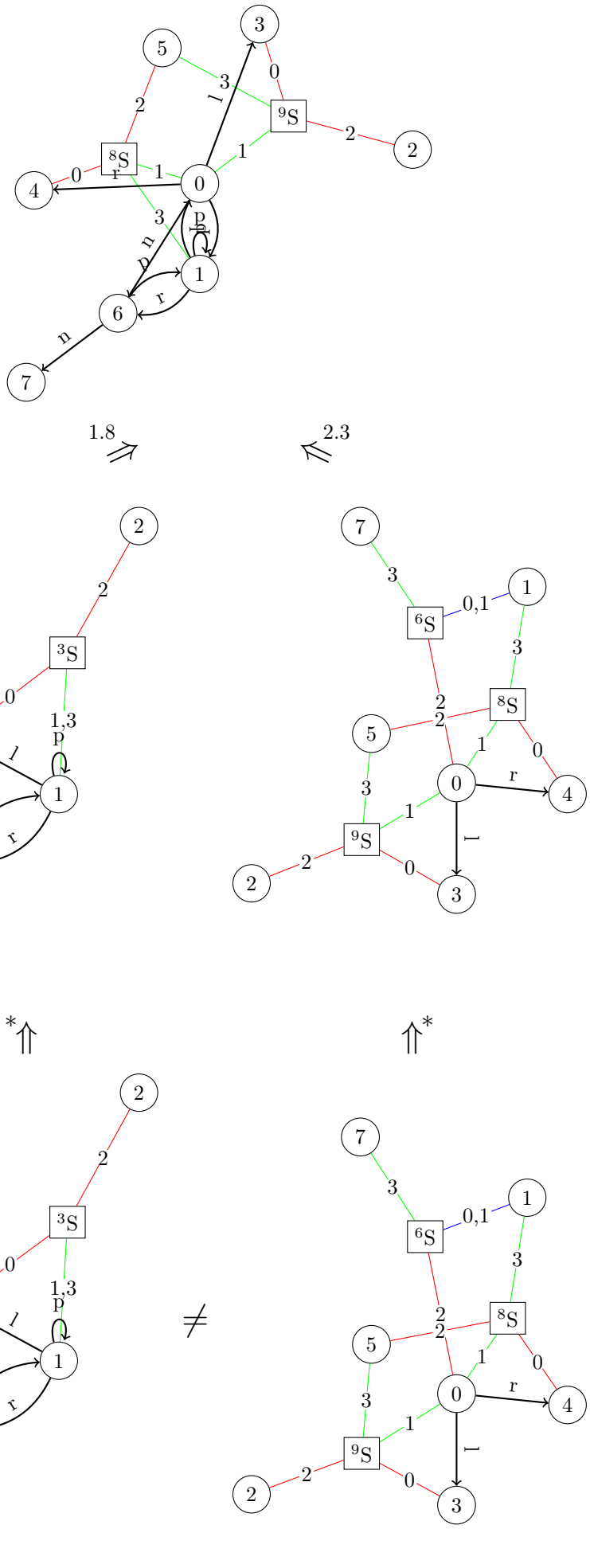
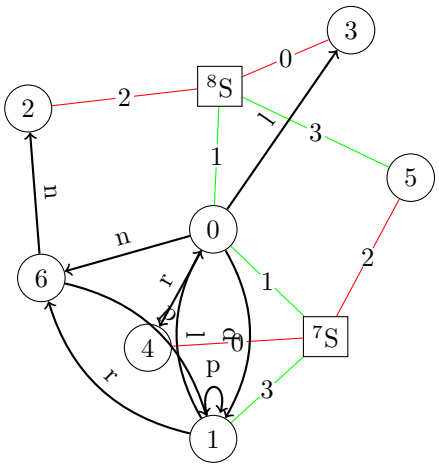


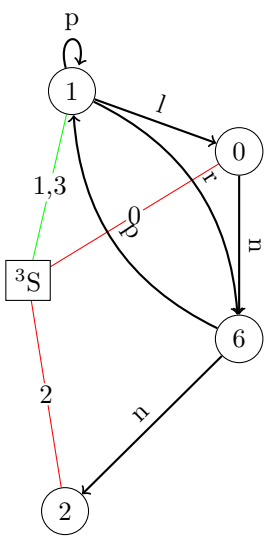
## 1.91 Critical Pair (Not Joinable)

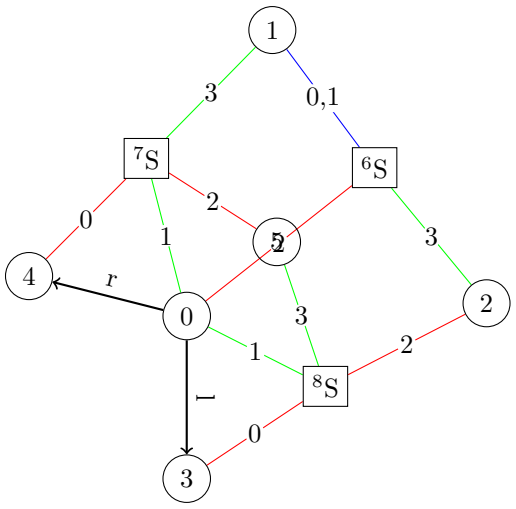


## 1.92 Critical Pair (Not Joinable)




1.8 2.3

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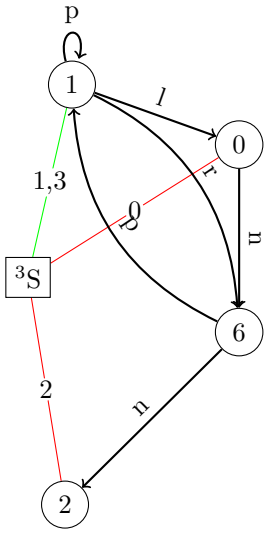


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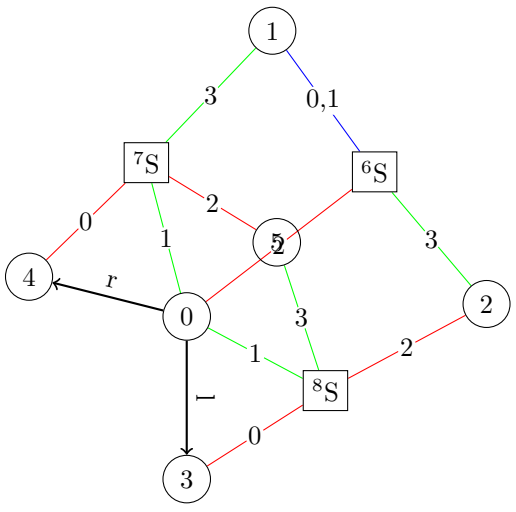
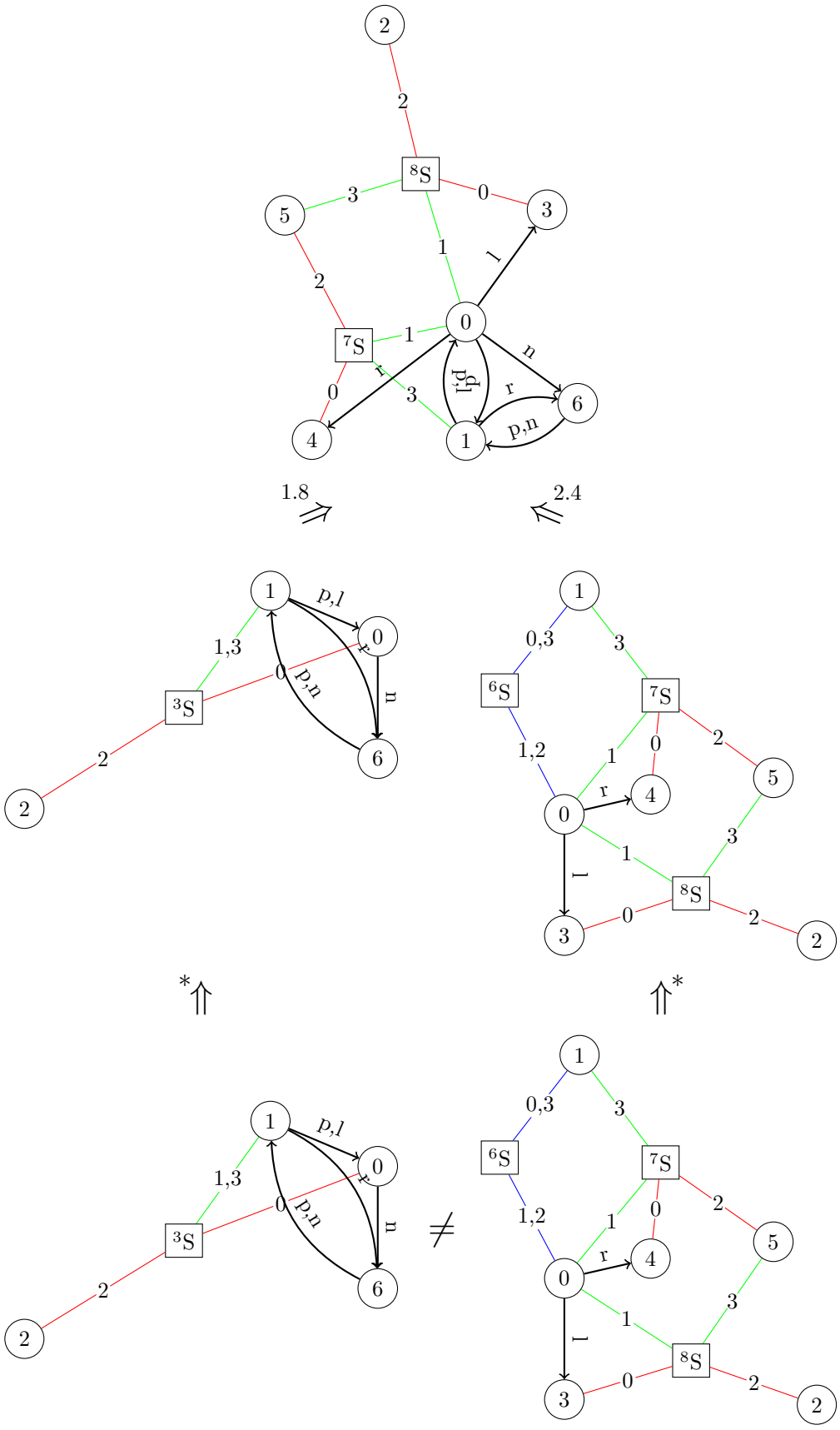


## 1.93 Critical Pair (Not Joinable)

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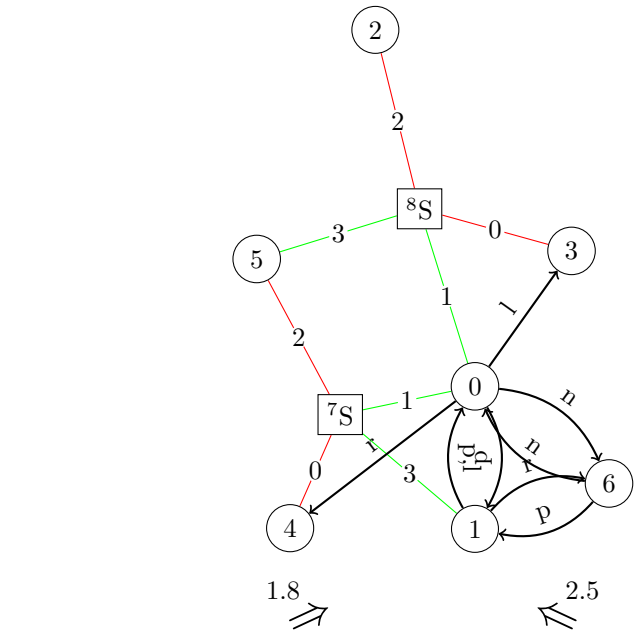
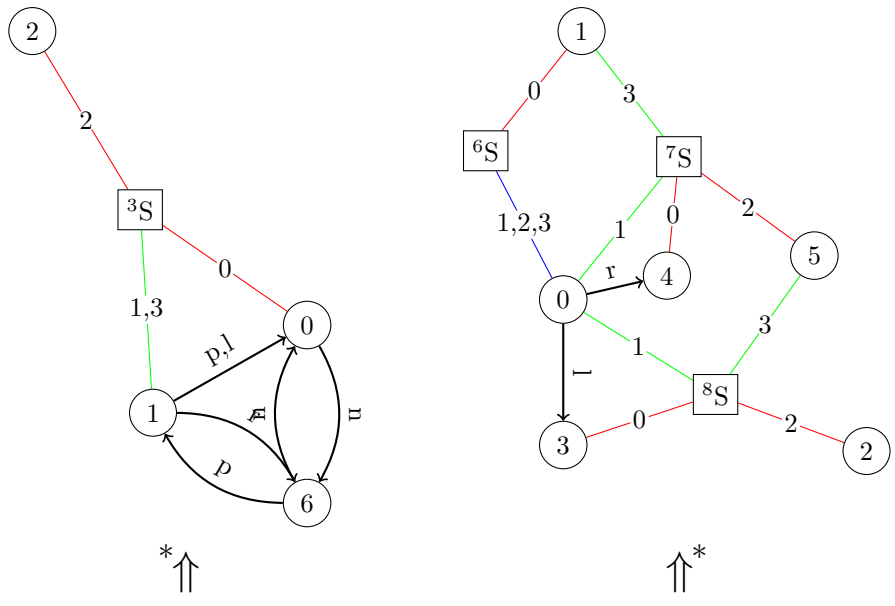
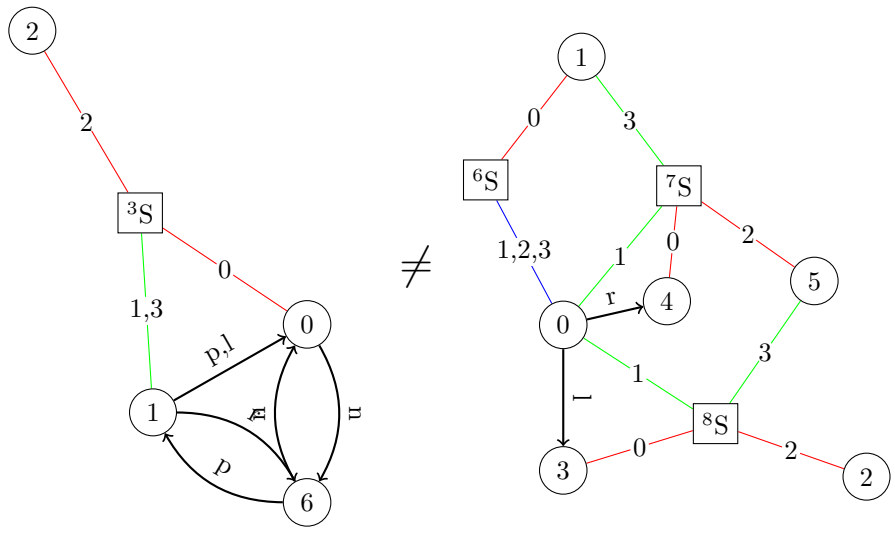
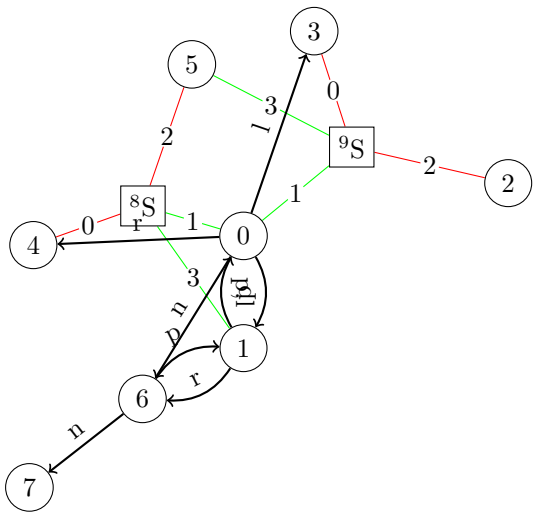
## 1.94 Critical Pair (Not Joinable)



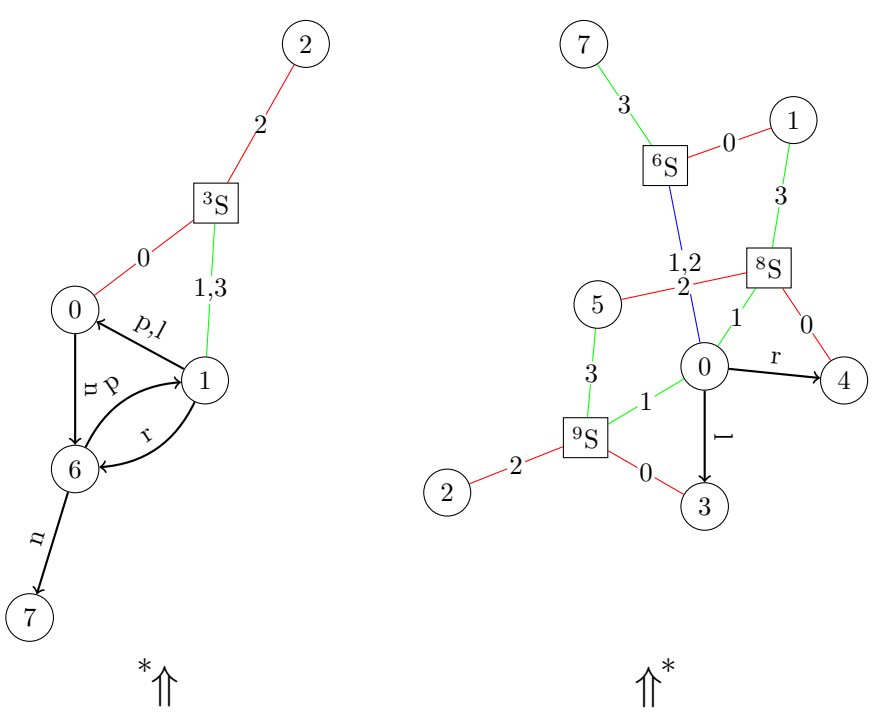



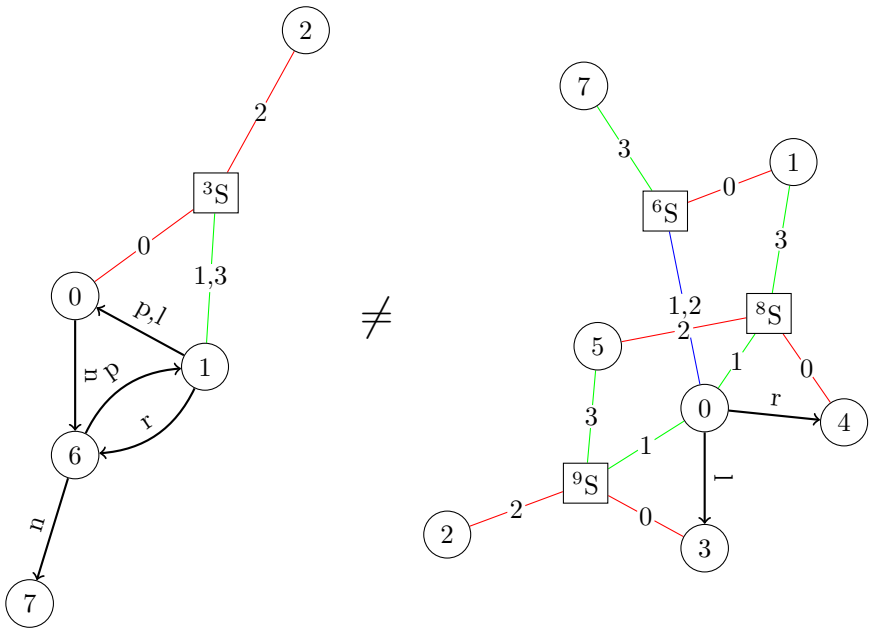
## 1.95 Critical Pair (Not Joinable)



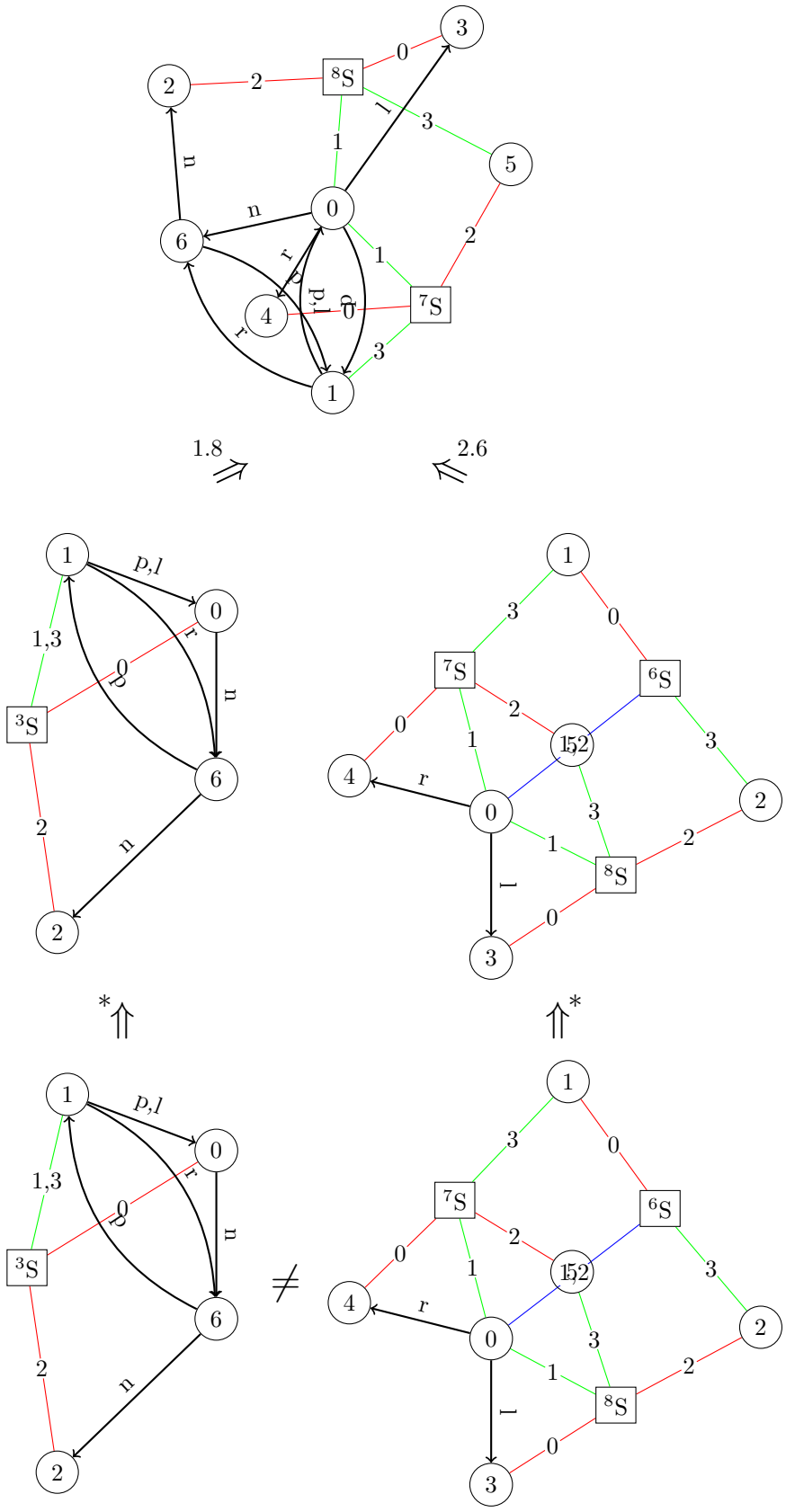

1.8 2.6



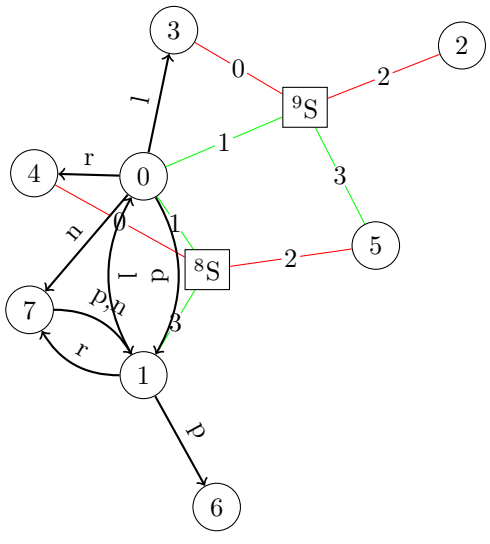

$^{*}\Uparrow$ $\Uparrow^{*}$



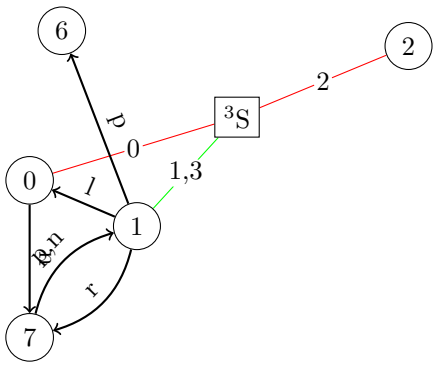
## 1.96 Critical Pair (Not Joinable)



## 1.97 Critical Pair (Not Joinable)




1.8 ⇑ ⇑ 2.7

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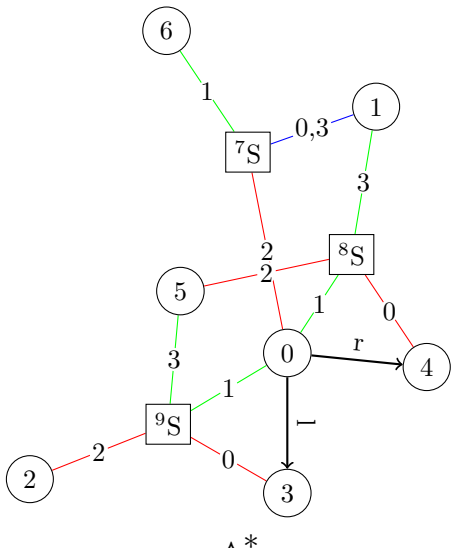


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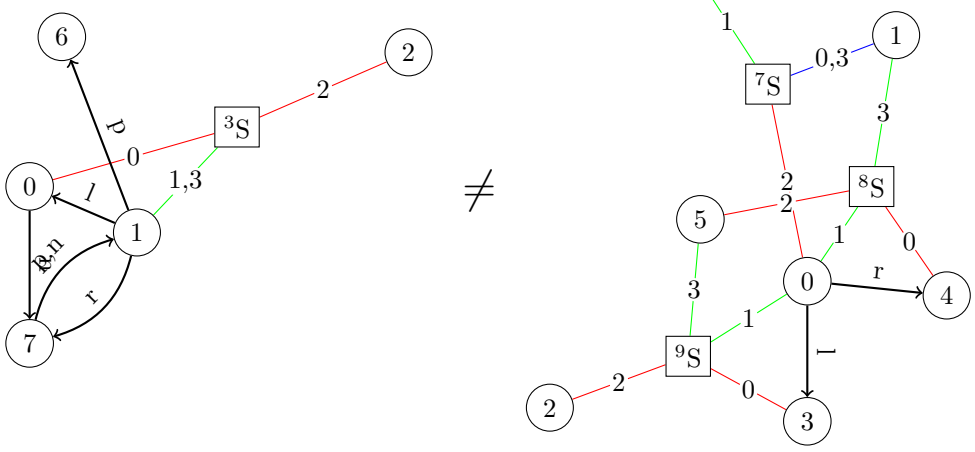
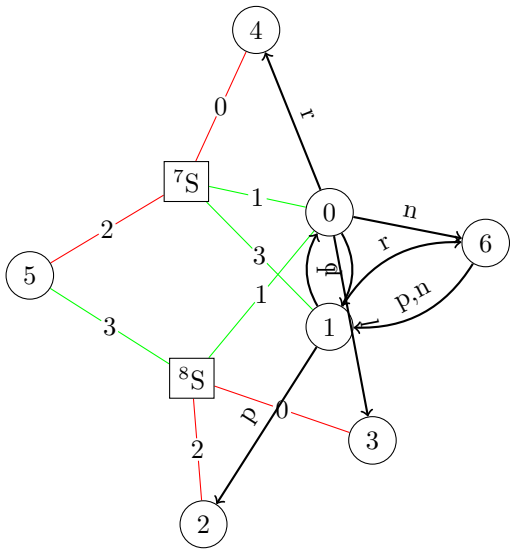
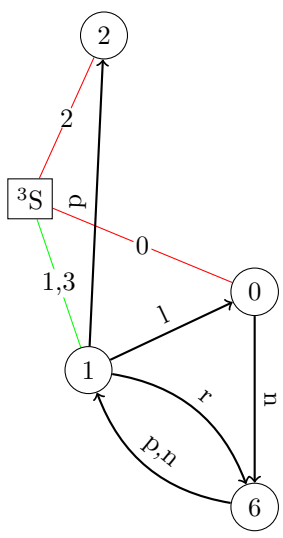


## 1.98 Critical Pair (Not Joinable)




1.8 2.7

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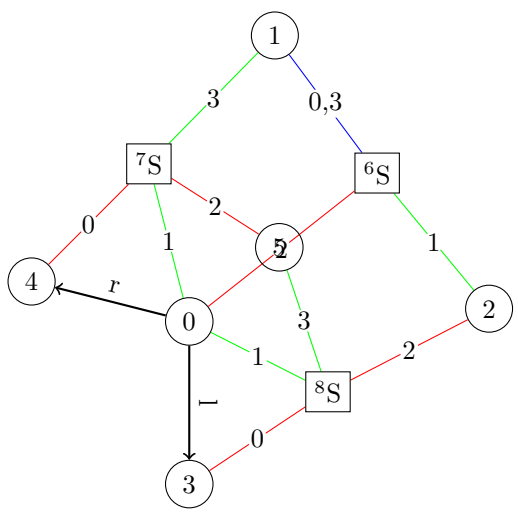


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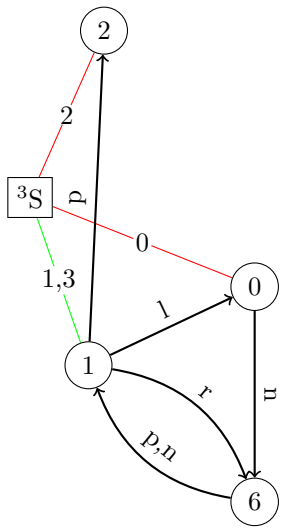


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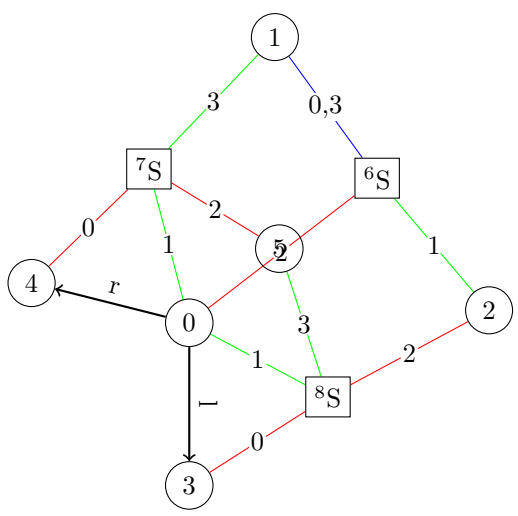
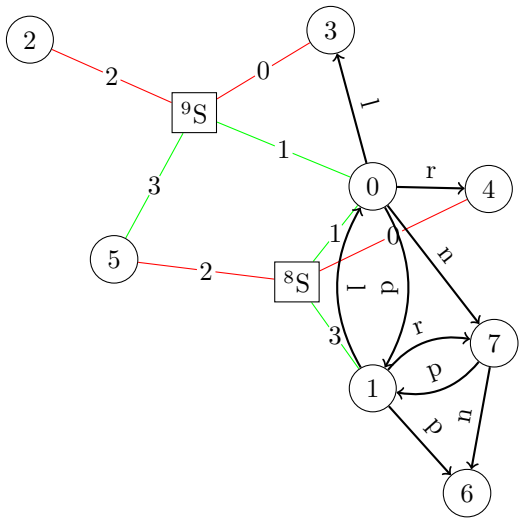
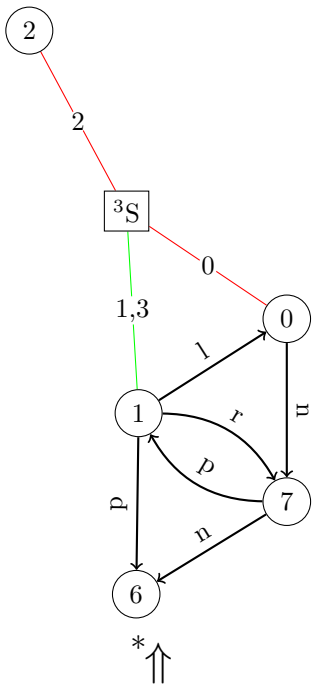


### 1.99 Critical Pair (Not Joinable)




1.8 2.8

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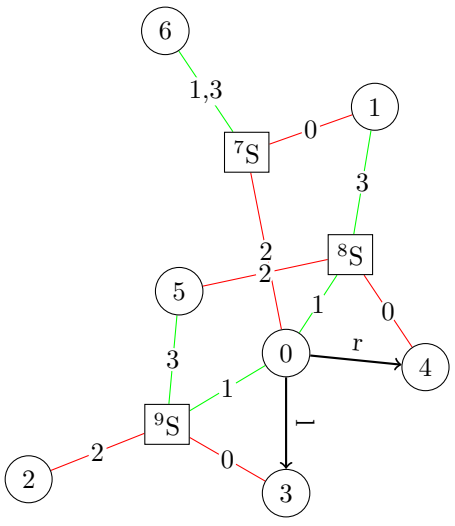


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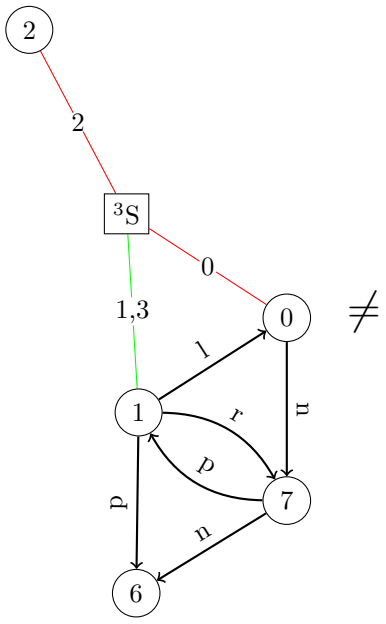


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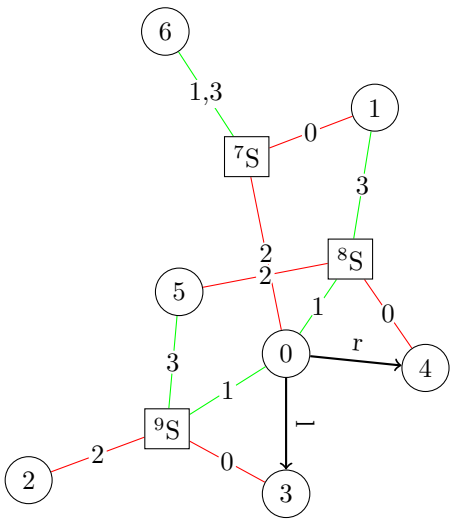
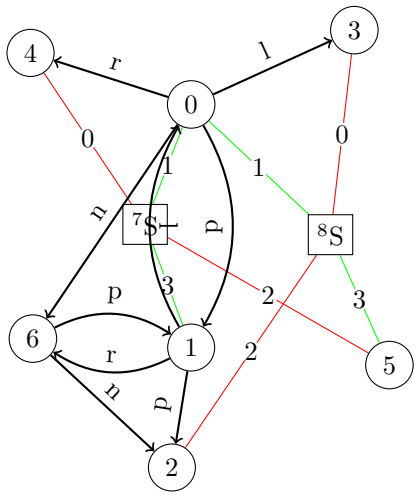
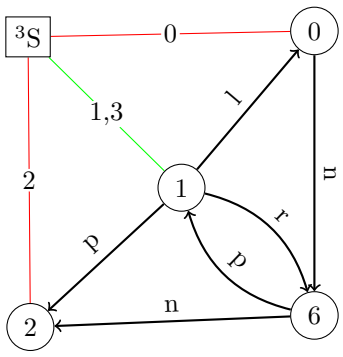
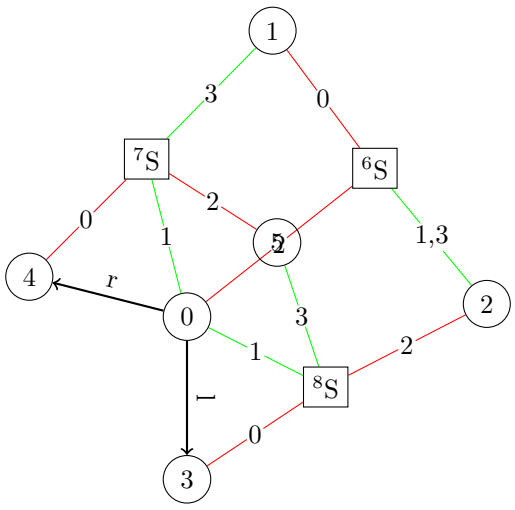


## 1.100 Critical Pair (Not Joinable)




1.8 ⇉ 2.8 ⇇

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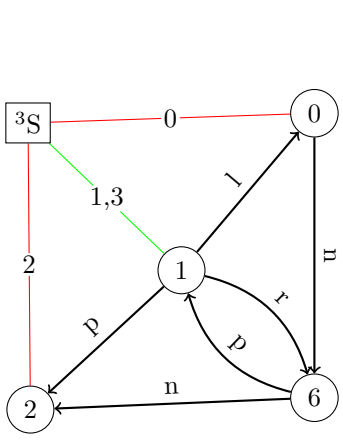


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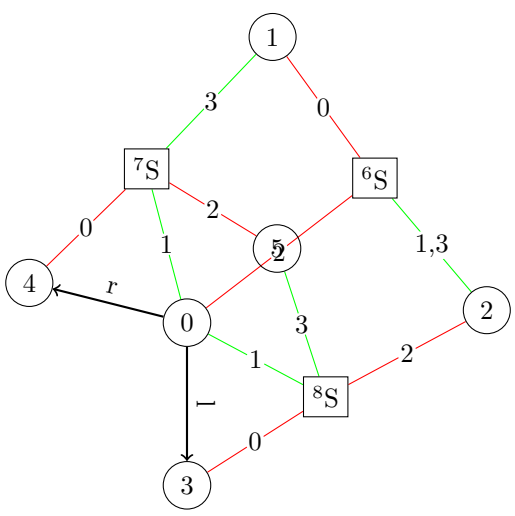
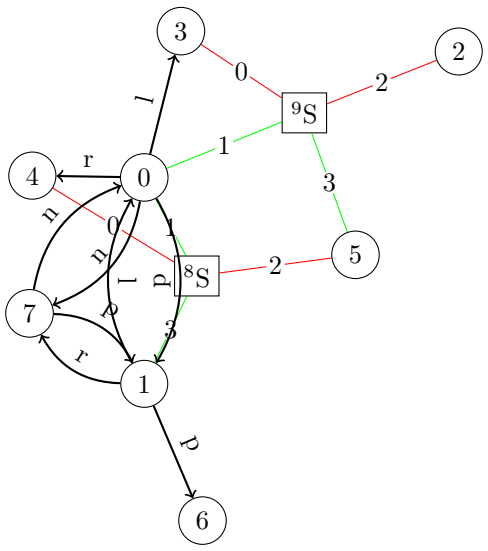
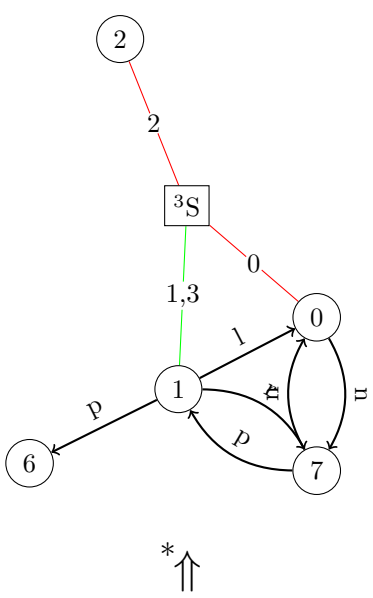


## 1.101 Critical Pair (Not Joinable)




1.8 ⇛ 2.9 ⇚

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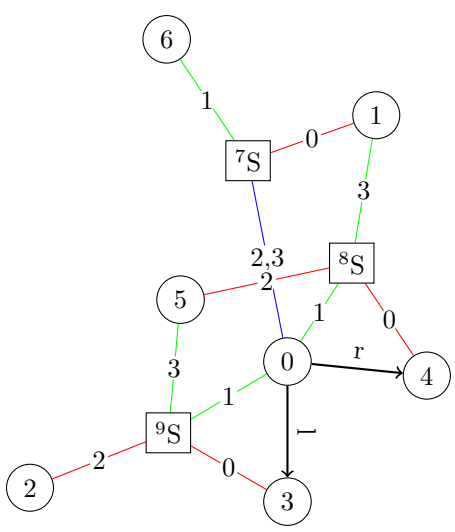


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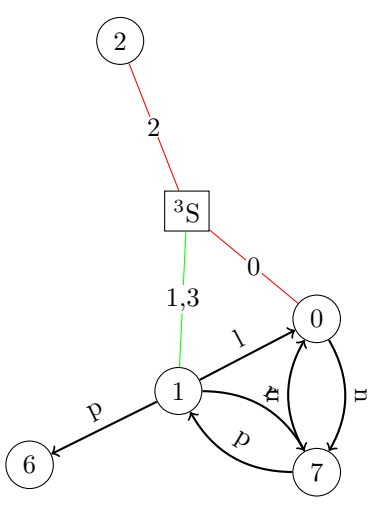
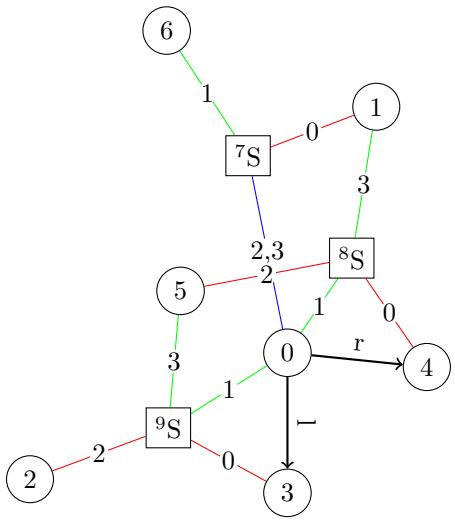
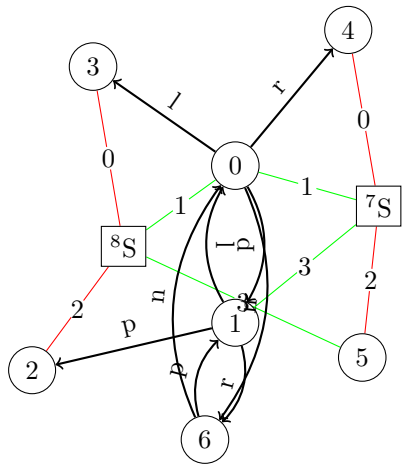
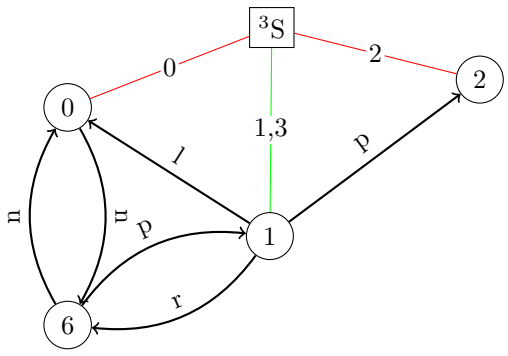


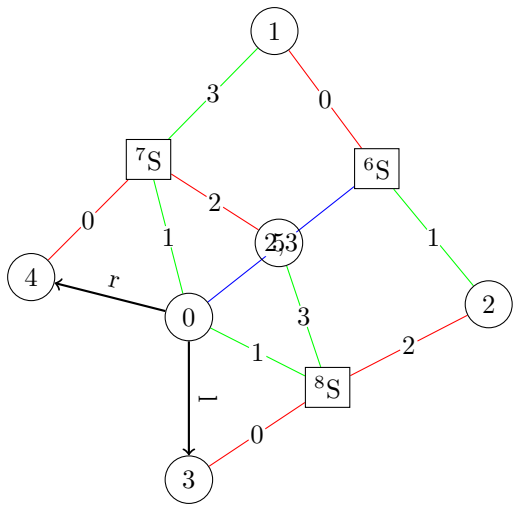



## 1.102 Critical Pair (Not Joinable)




1.8 ⇉ 2.9 ⇇

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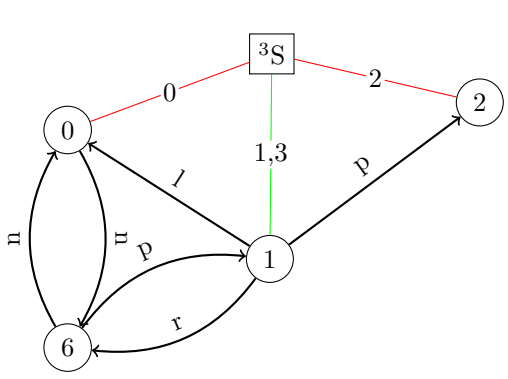


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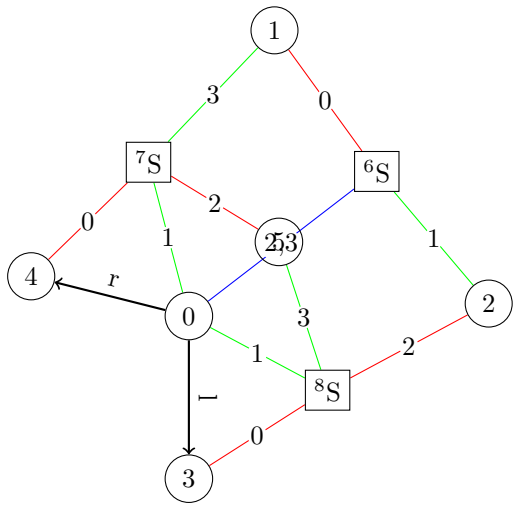
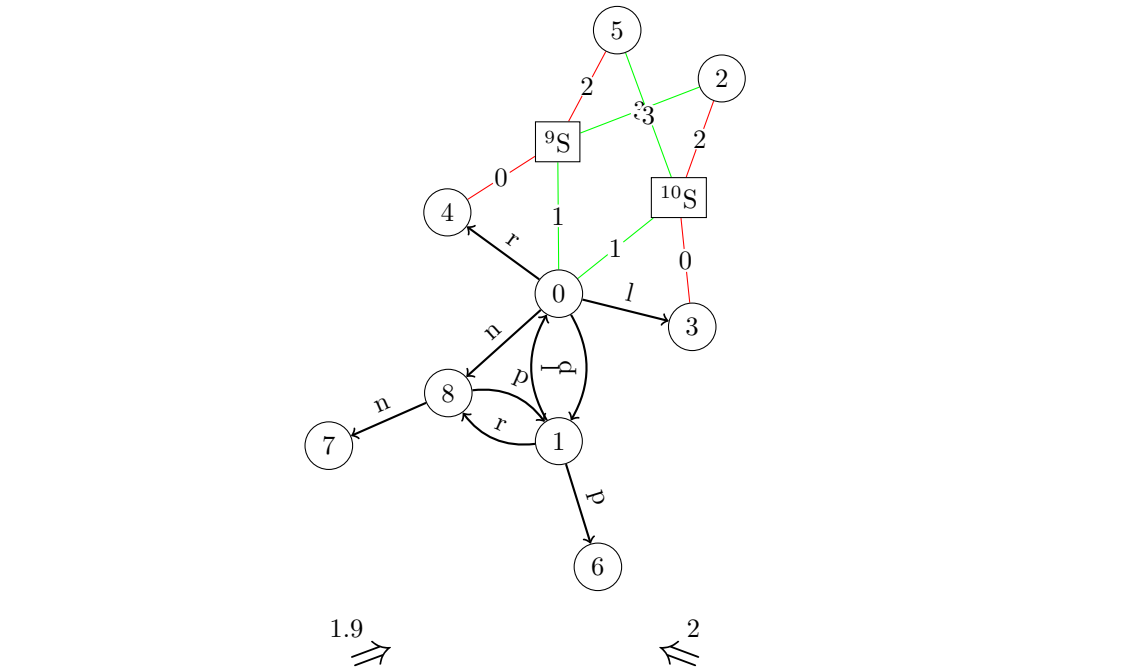
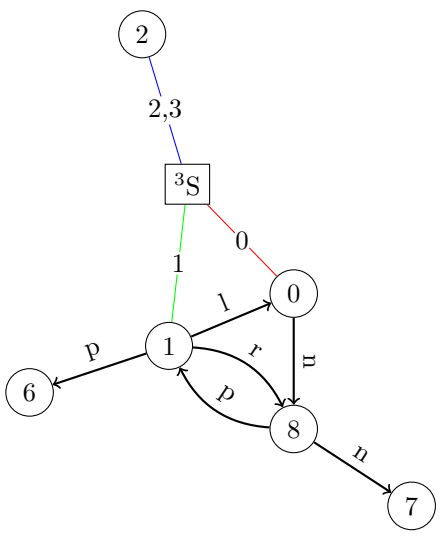


## 1.103 Critical Pair (Not Joinable)




1.9 2

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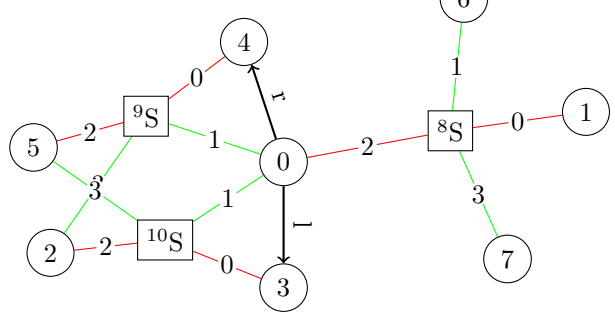


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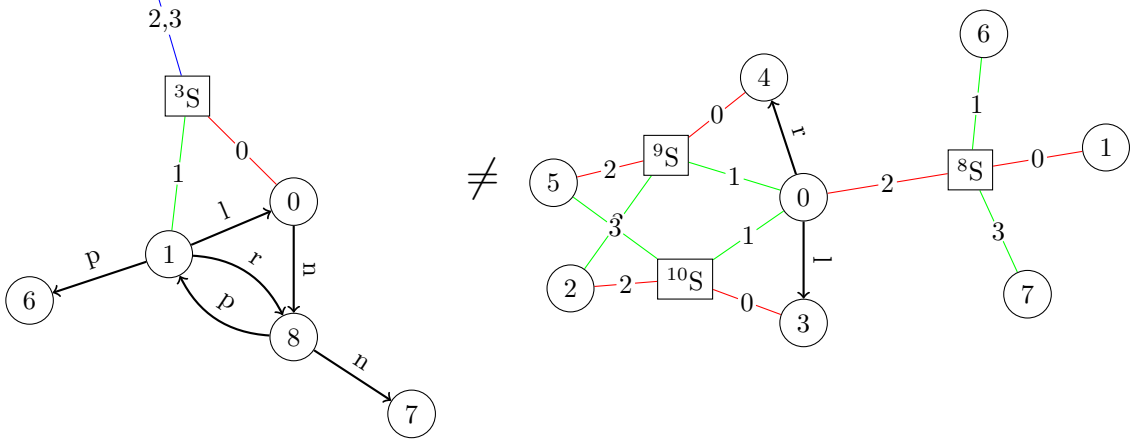
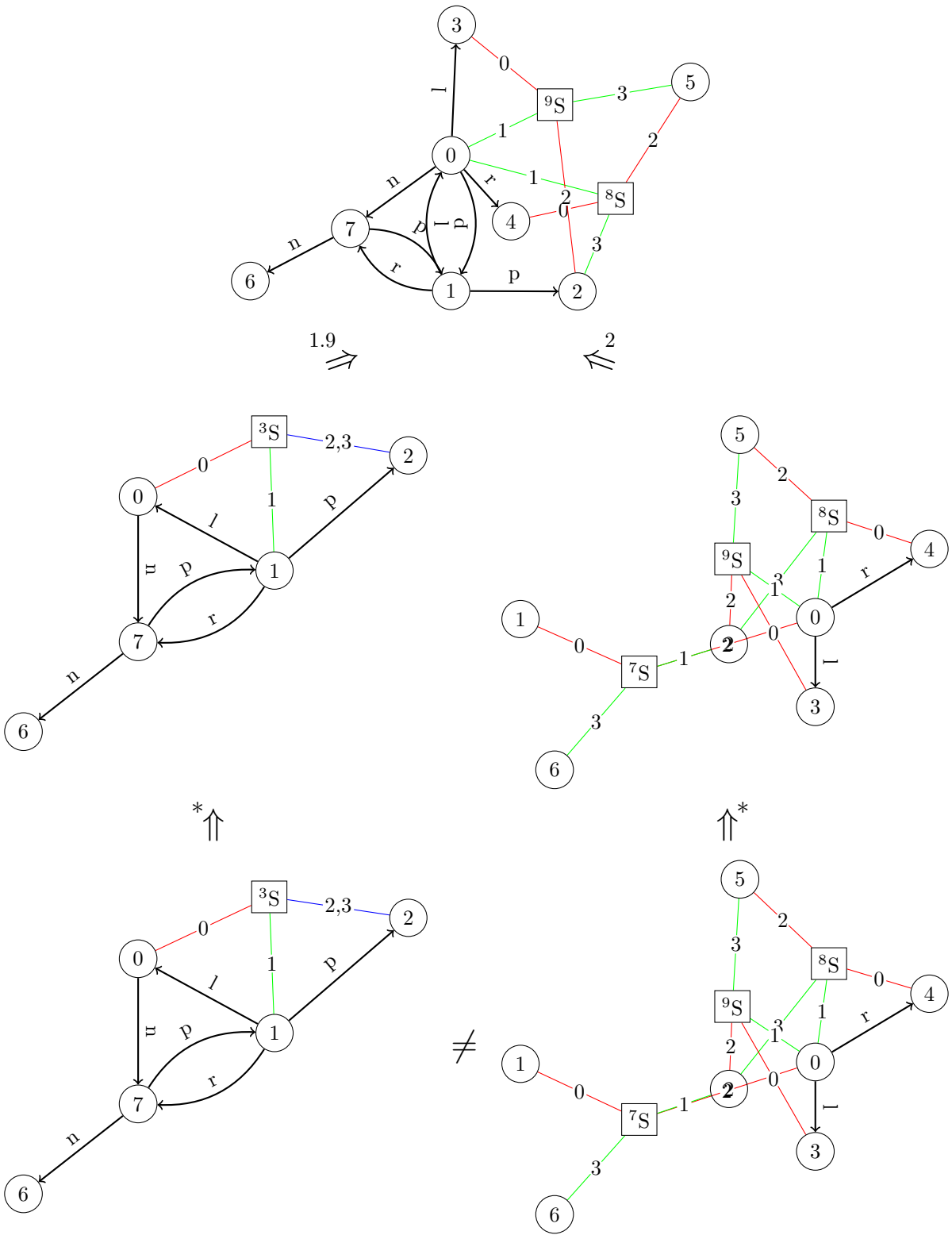
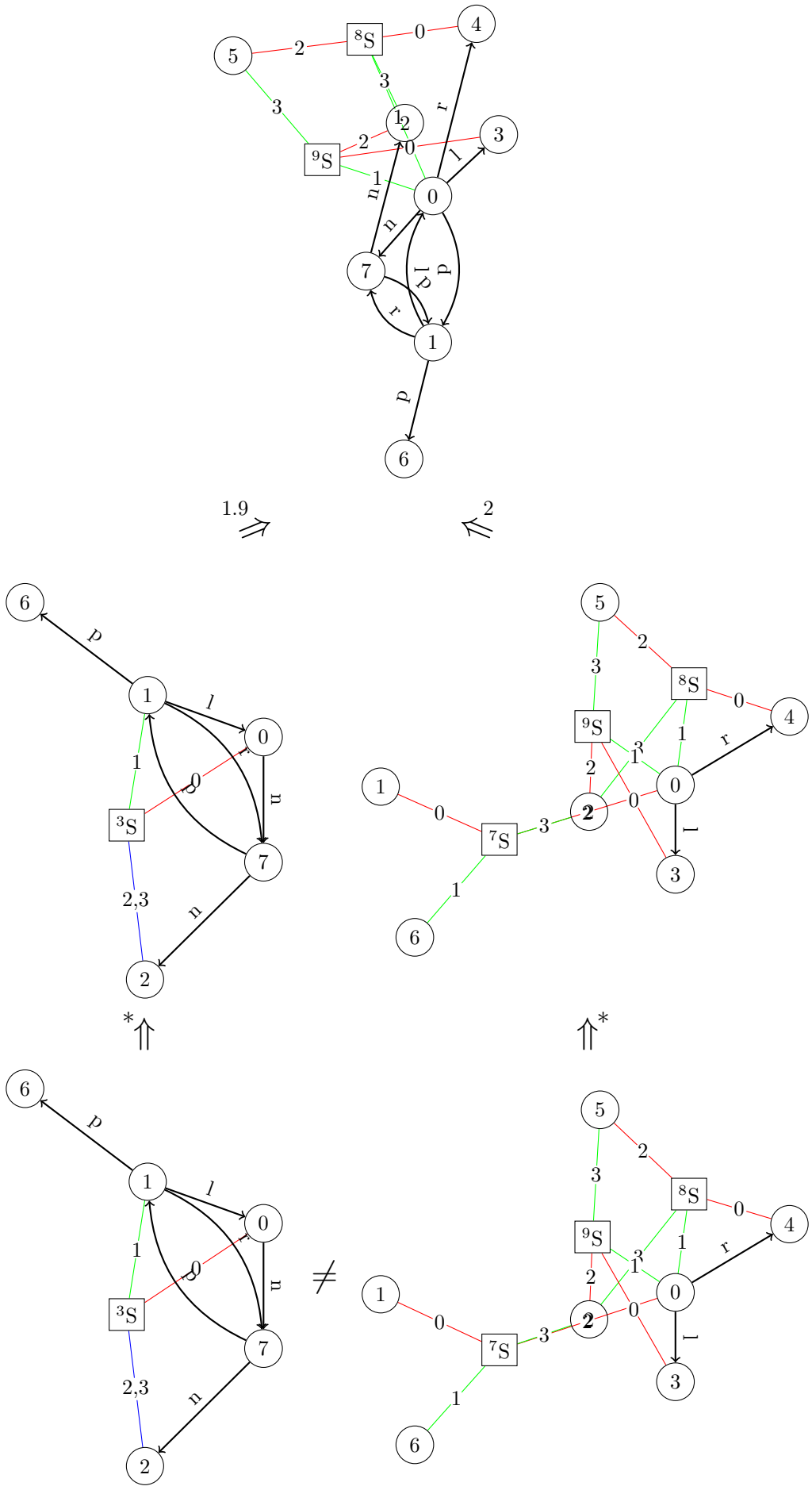


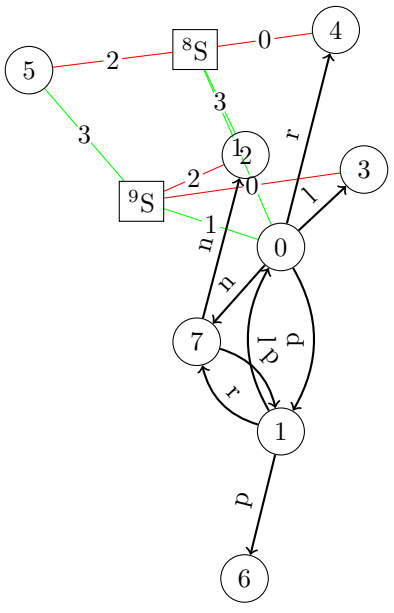
### 1.104 Critical Pair (Not Joinable)



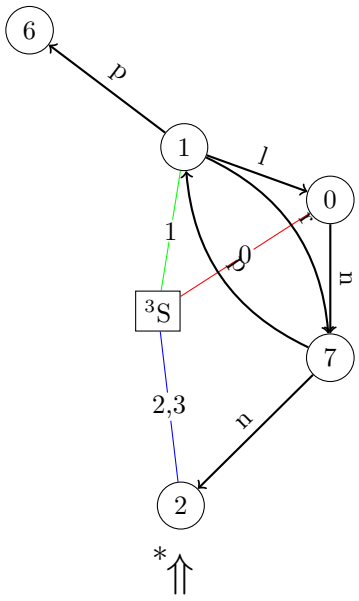
### 1.105 Critical Pair (Not Joinable)



### 1.106 Critical Pair (Not Joinable)




1.9 ⇛ 2 ⇚

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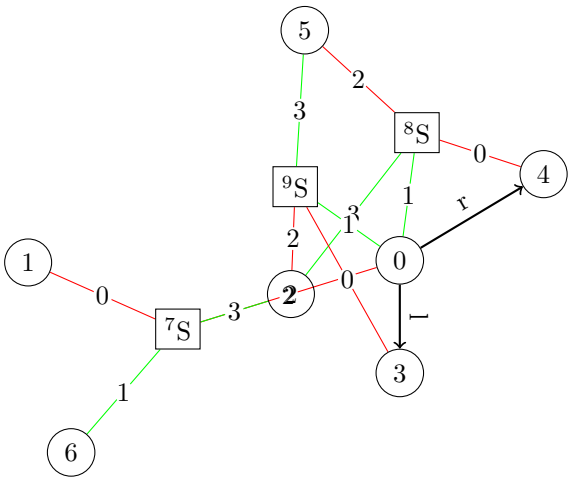


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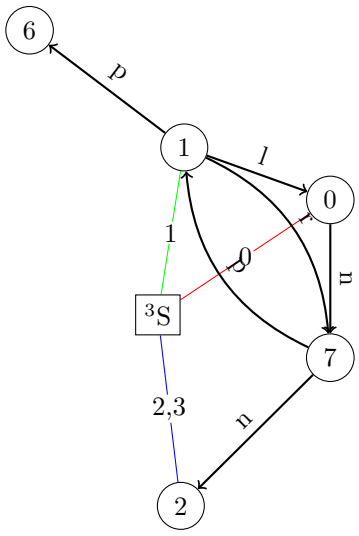


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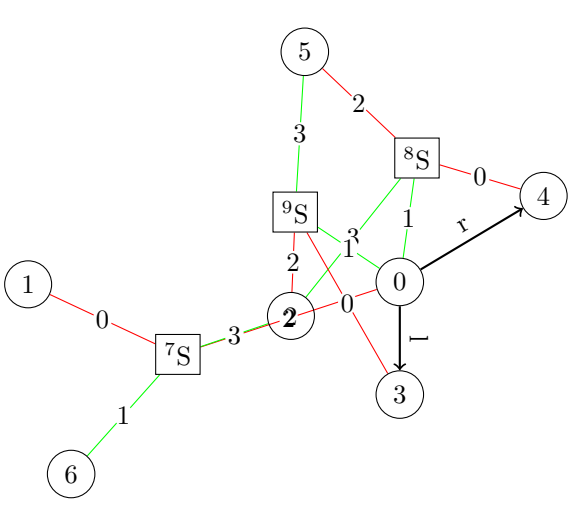
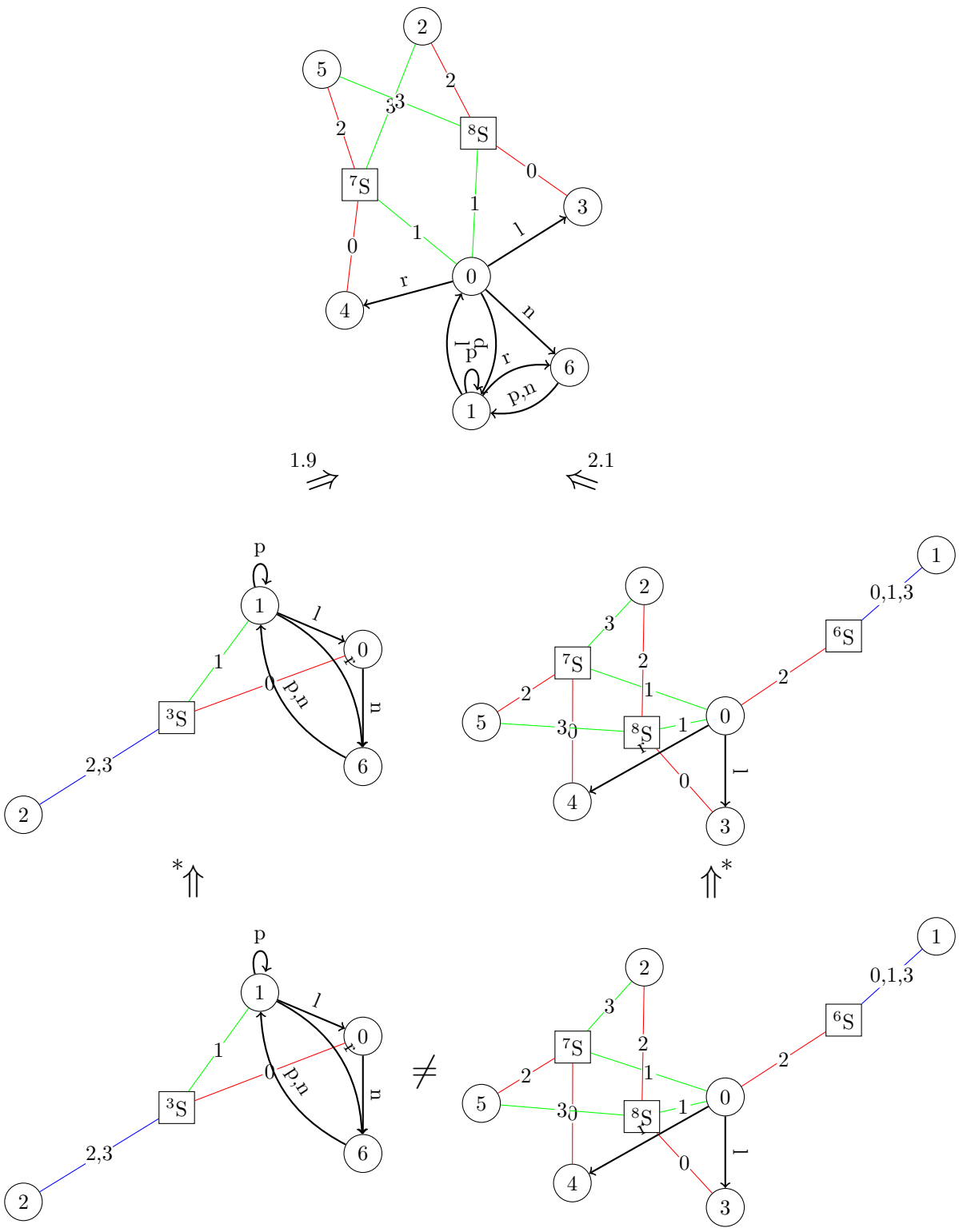
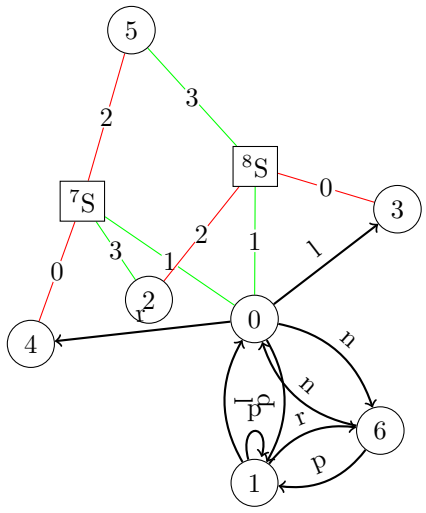


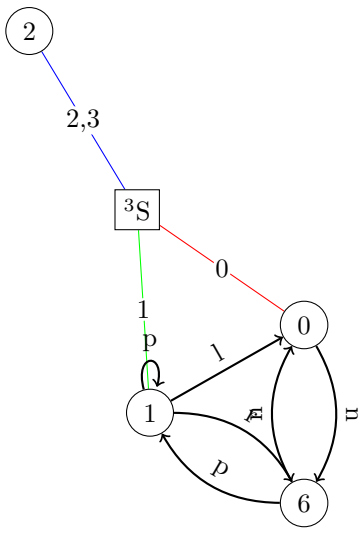
### 1.107 Critical Pair (Not Joinable)

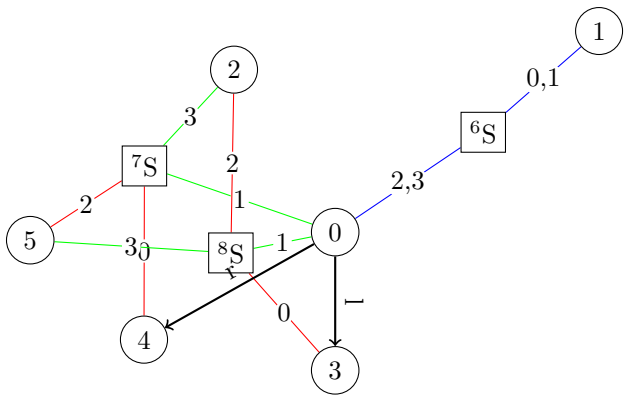


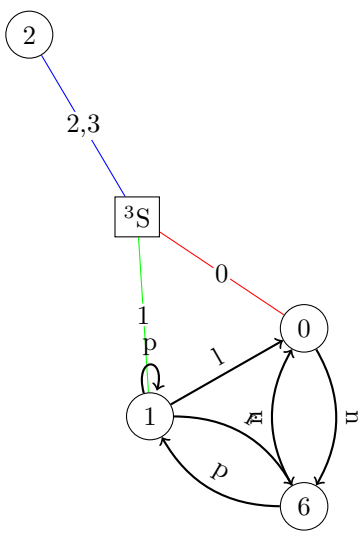
## 1.108 Critical Pair (Not Joinable)




1.9 2.2

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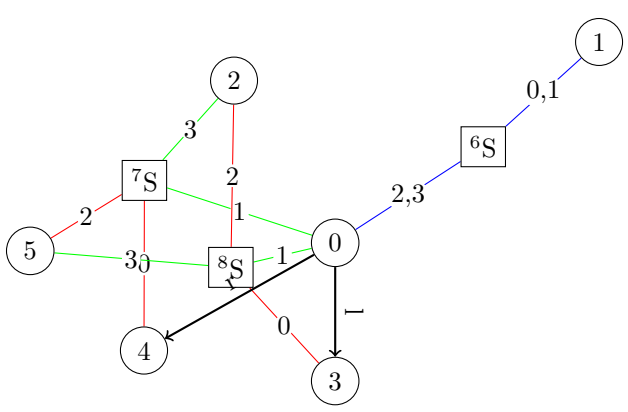
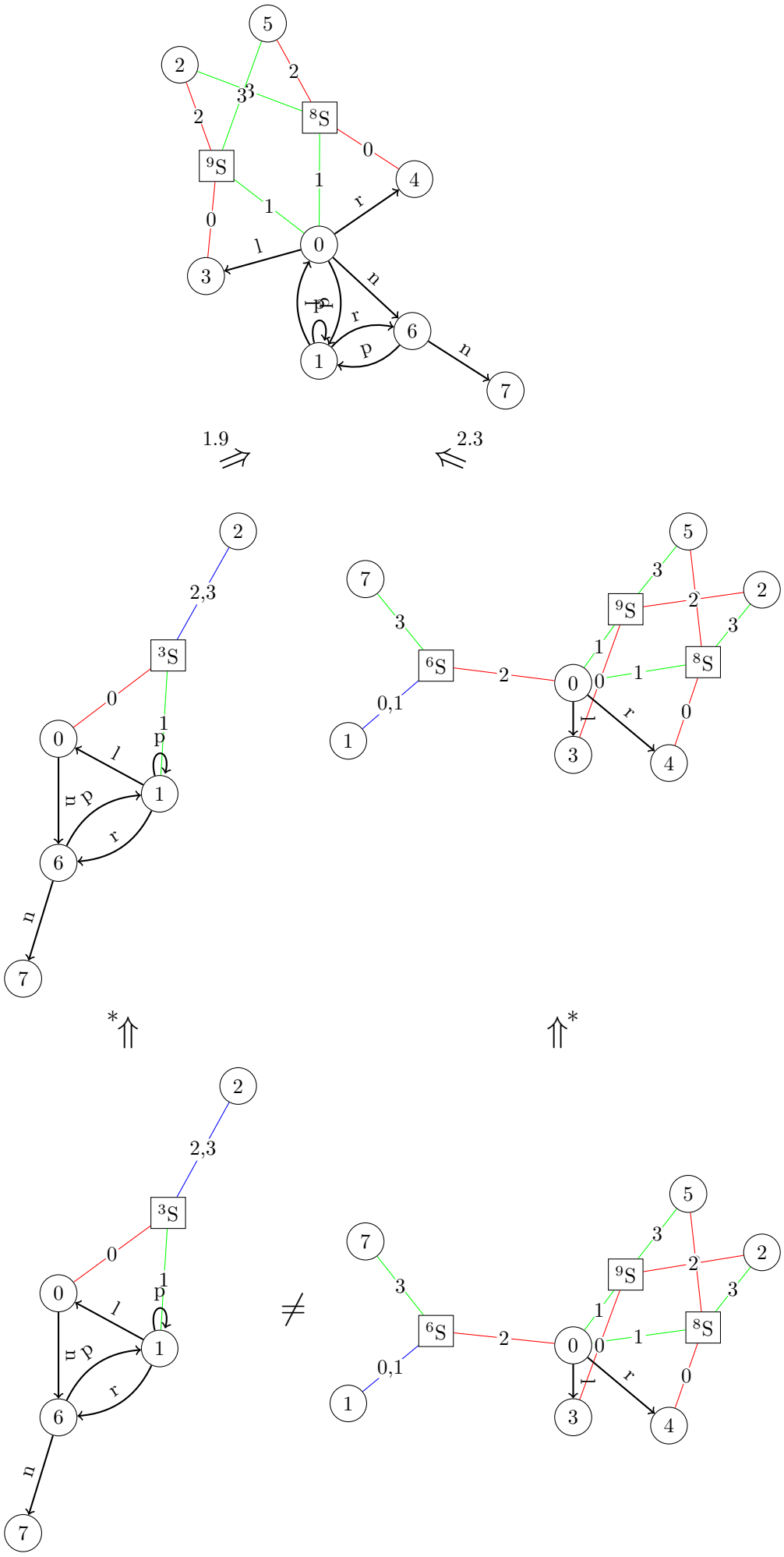
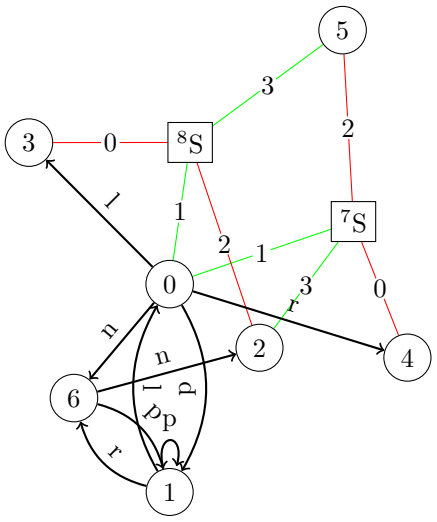


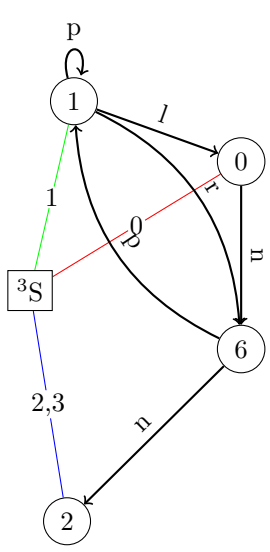
## 1.109 Critical Pair (Not Joinable)

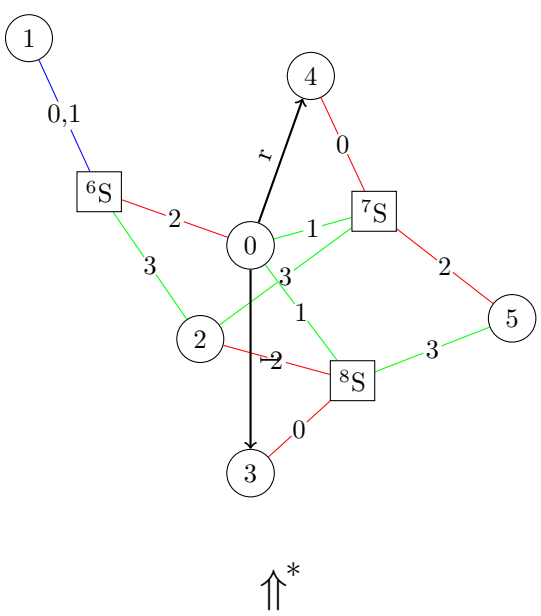


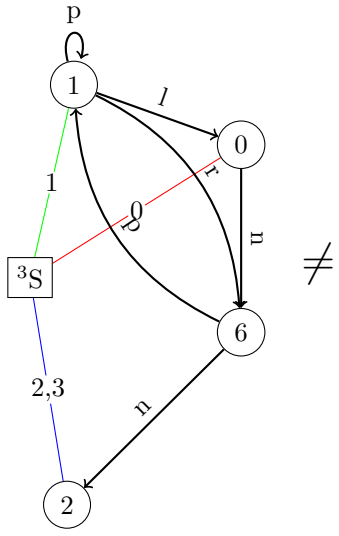
## 1.110 Critical Pair (Not Joinable)




1.9 2.3

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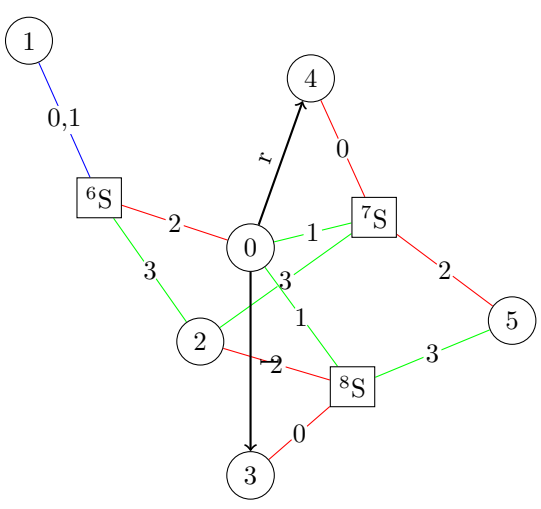
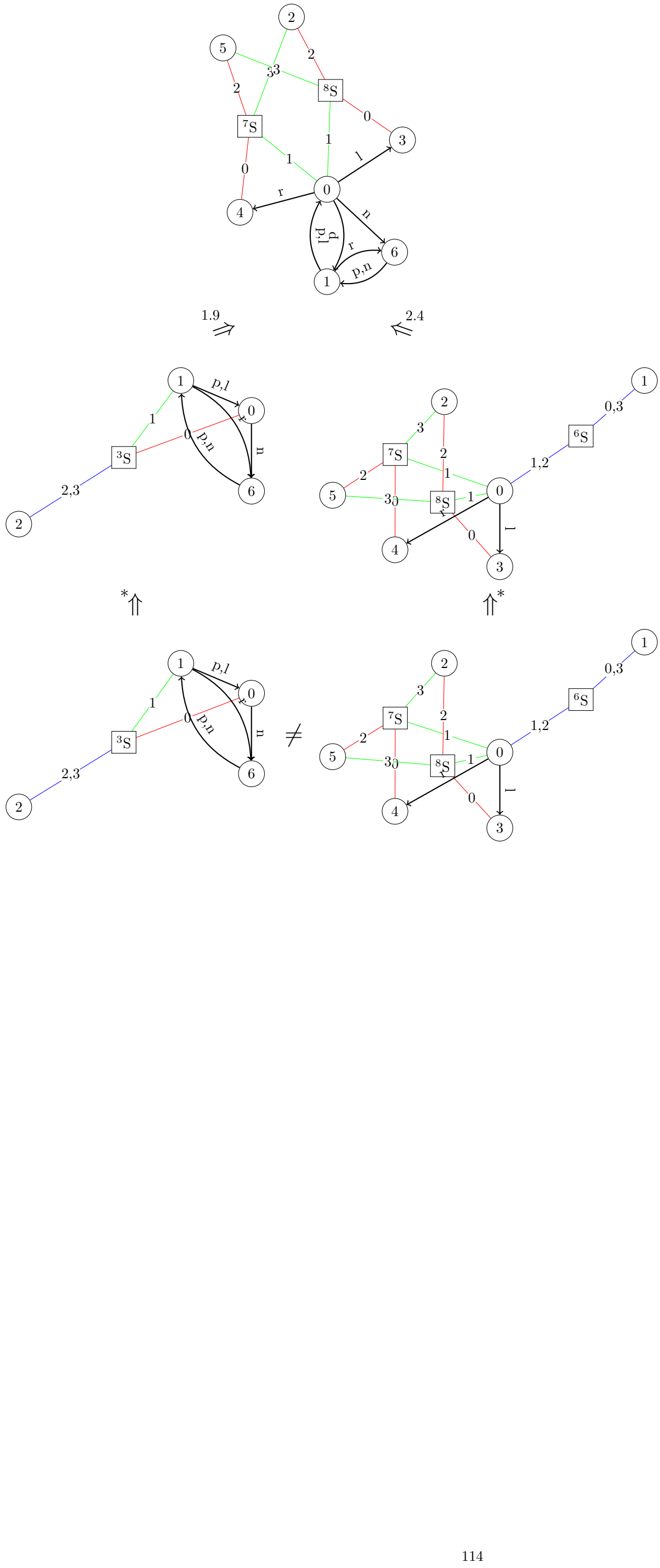
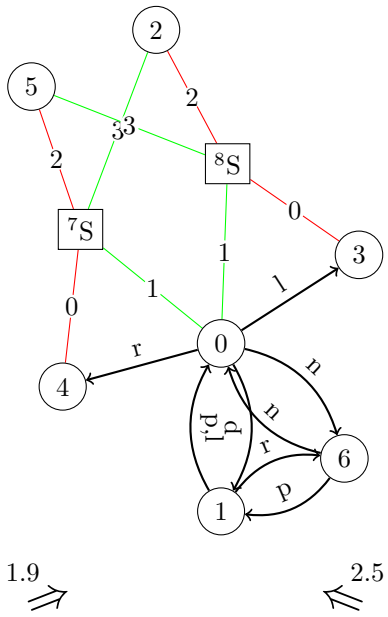


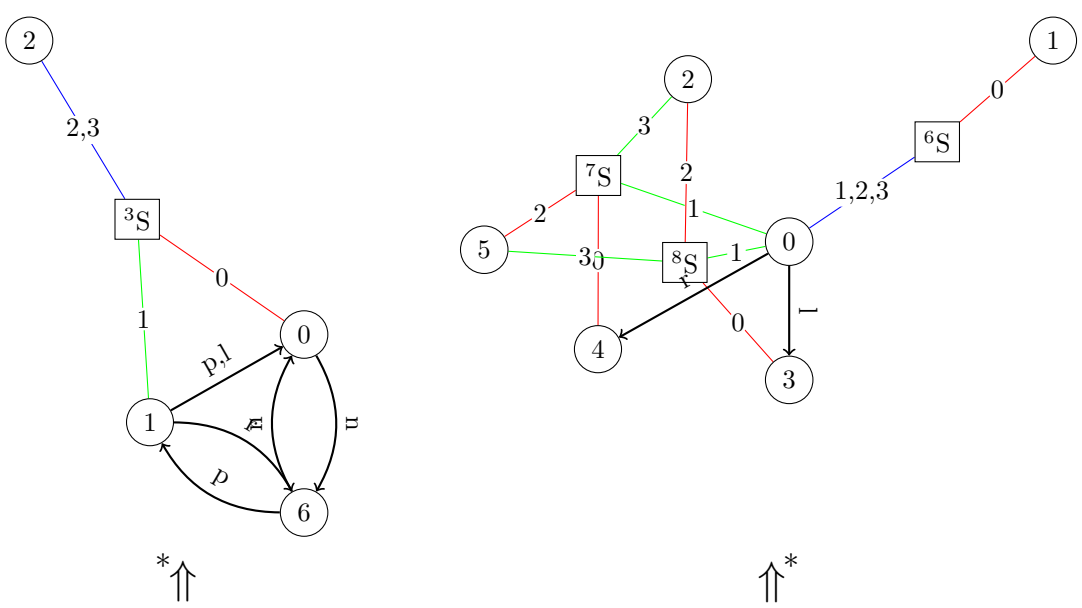
### 1.111 Critical Pair (Not Joinable)

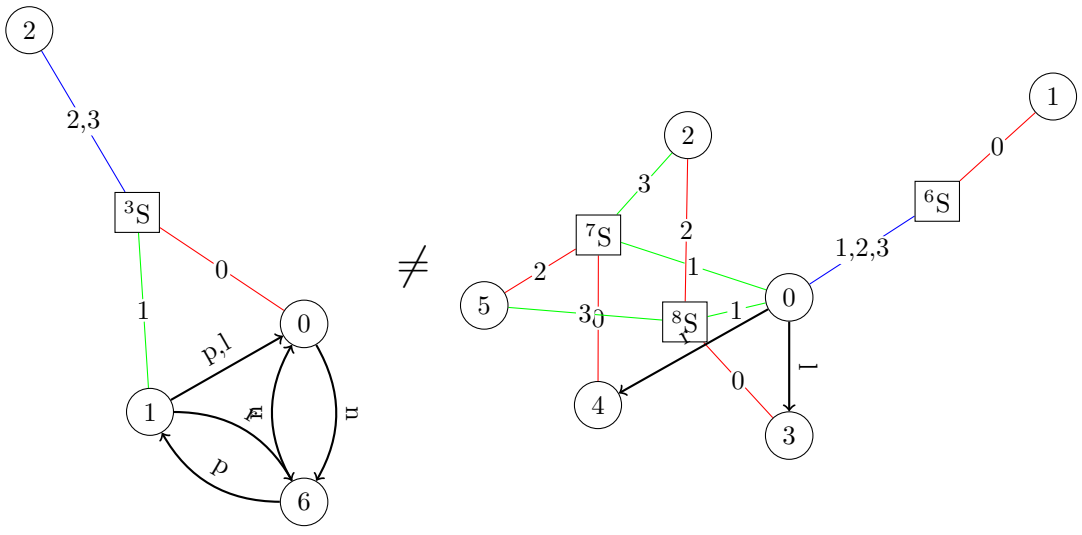


## 1.112 Critical Pair (Not Joinable)

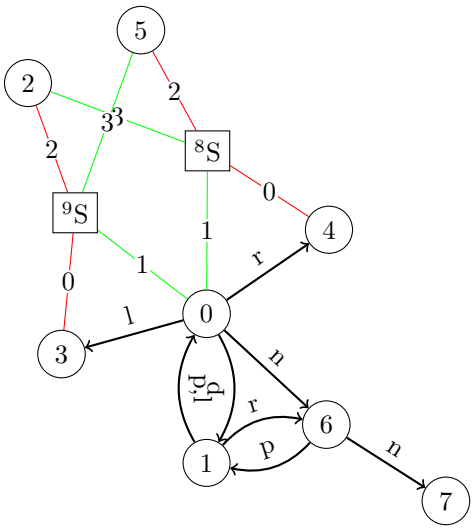



1.9 2.5

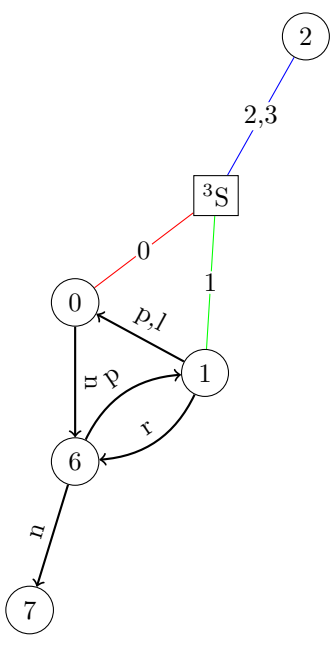


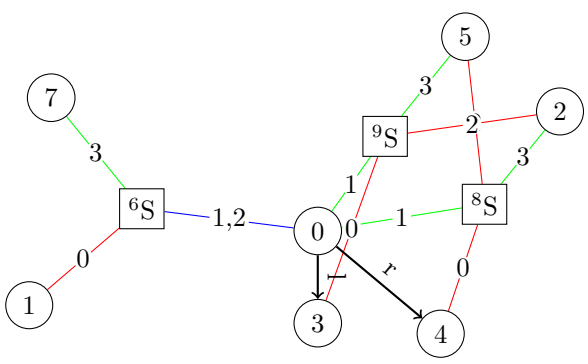



### 1.113 Critical Pair (Not Joinable)




1.9 2.6

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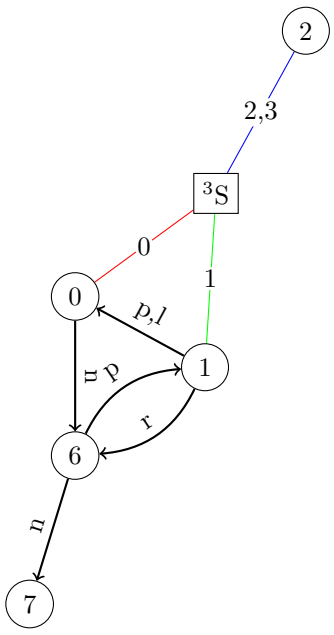


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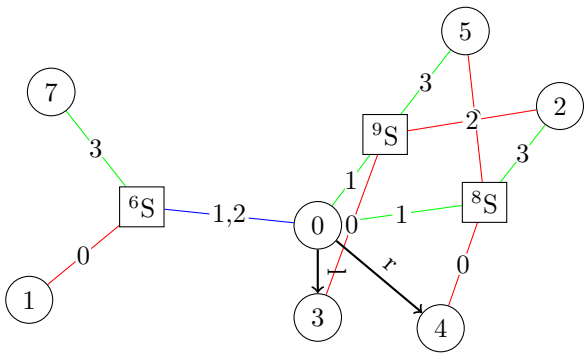
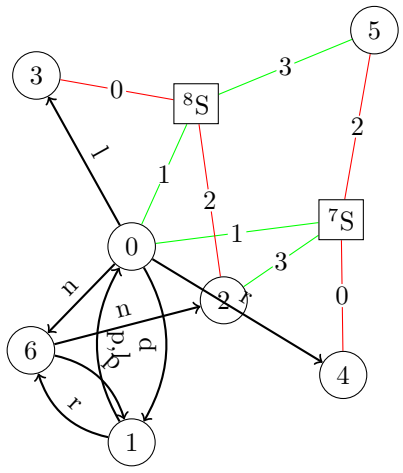
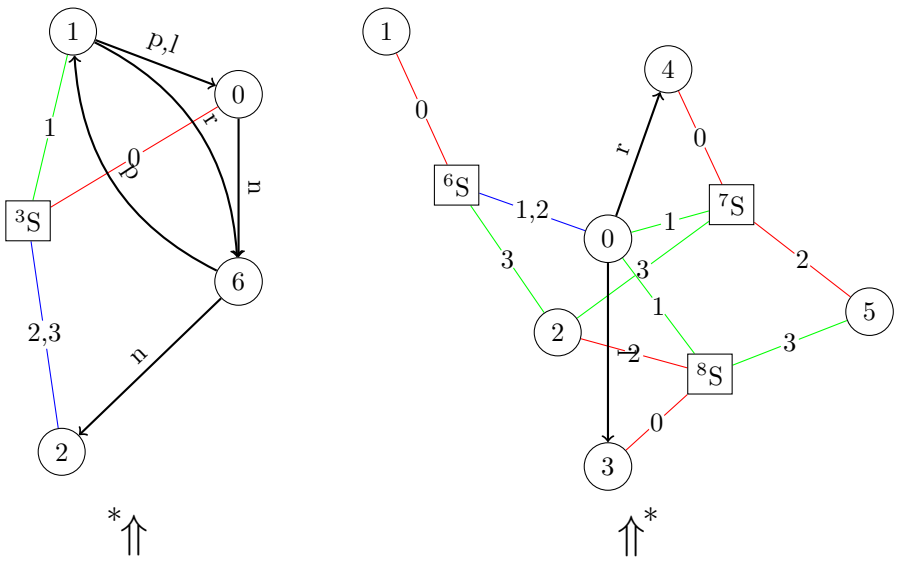


## 1.114 Critical Pair (Not Joinable)




1.9 ⇉ 2.6 ⇇

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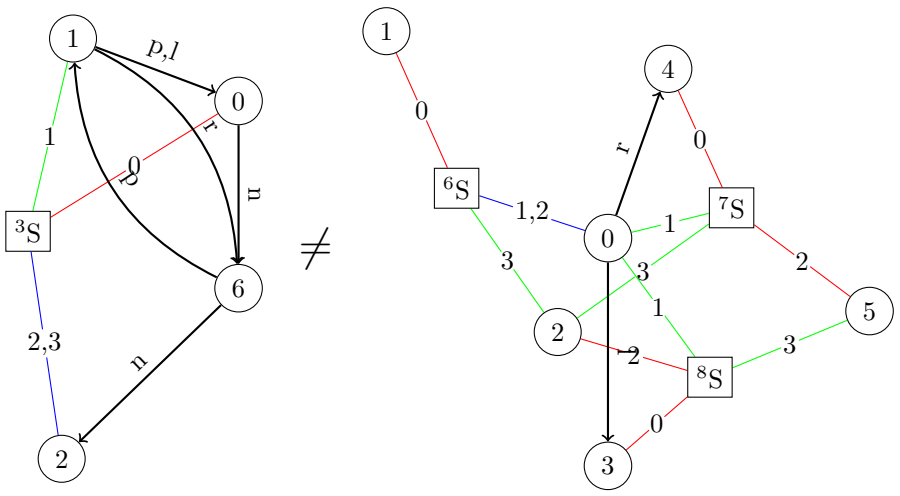
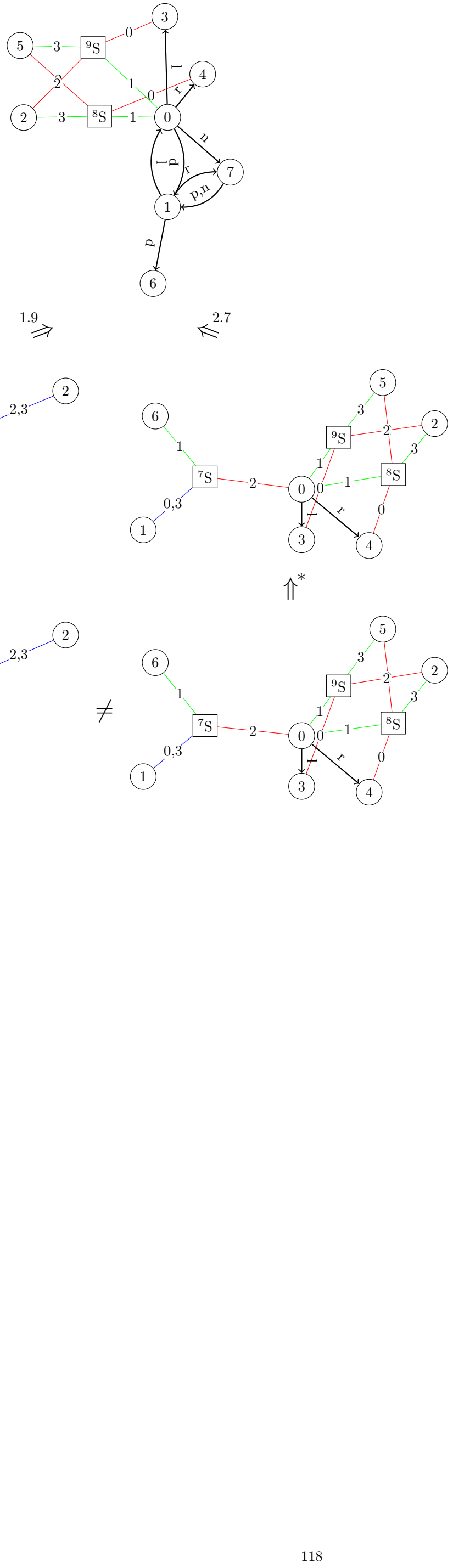
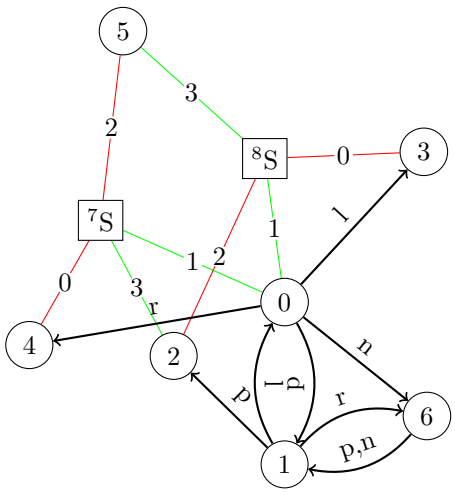


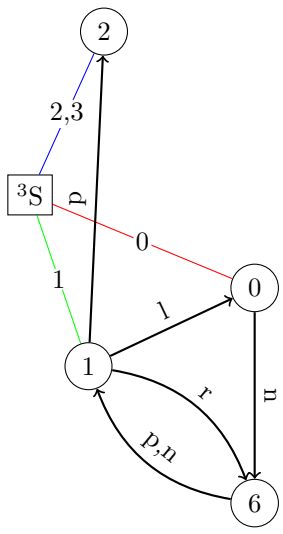
### 1.115 Critical Pair (Not Joinable)

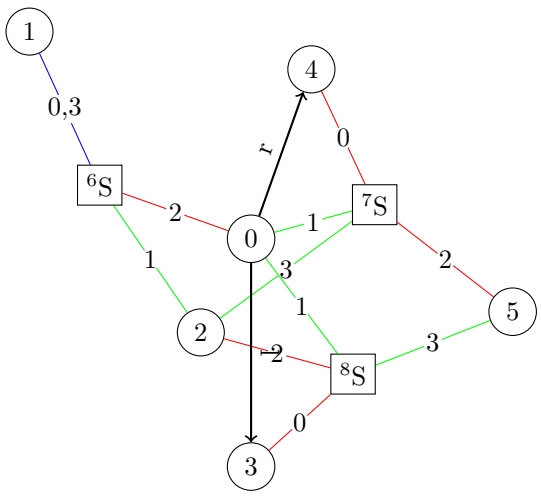


### 1.116 Critical Pair (Not Joinable)




1.9 2.7

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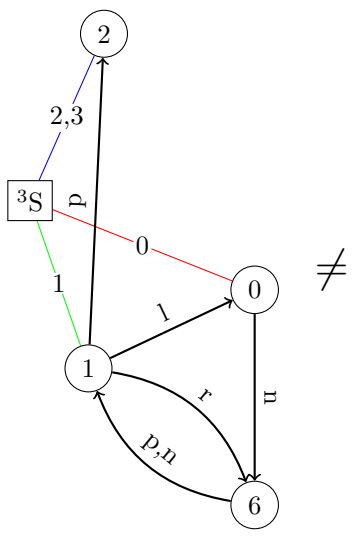


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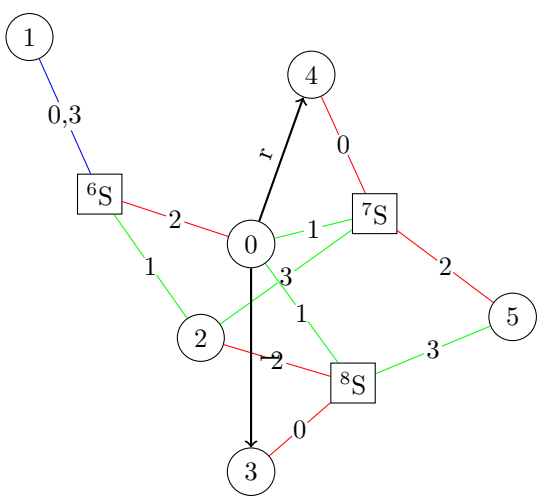
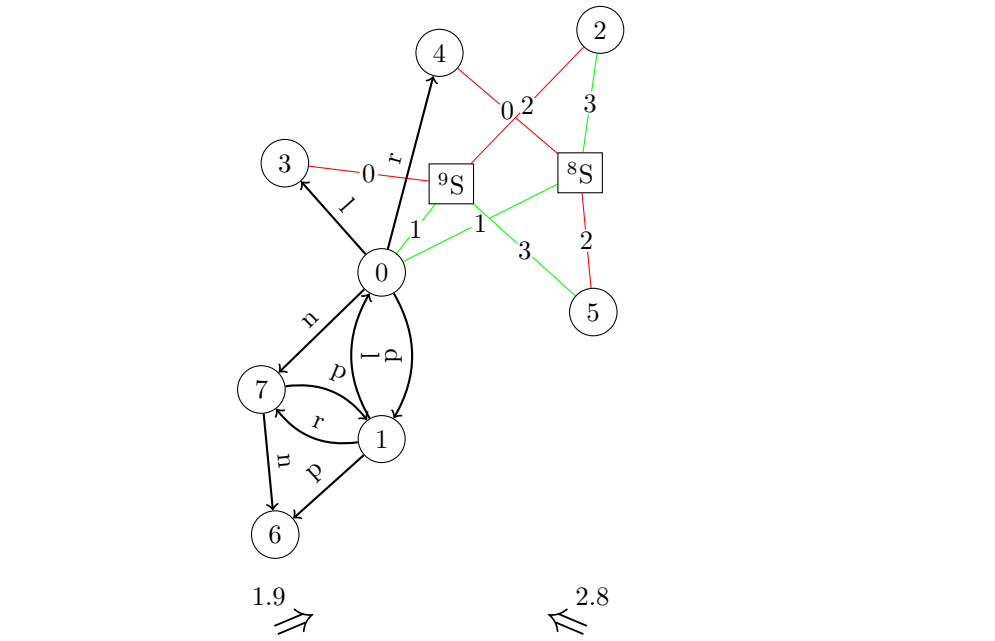
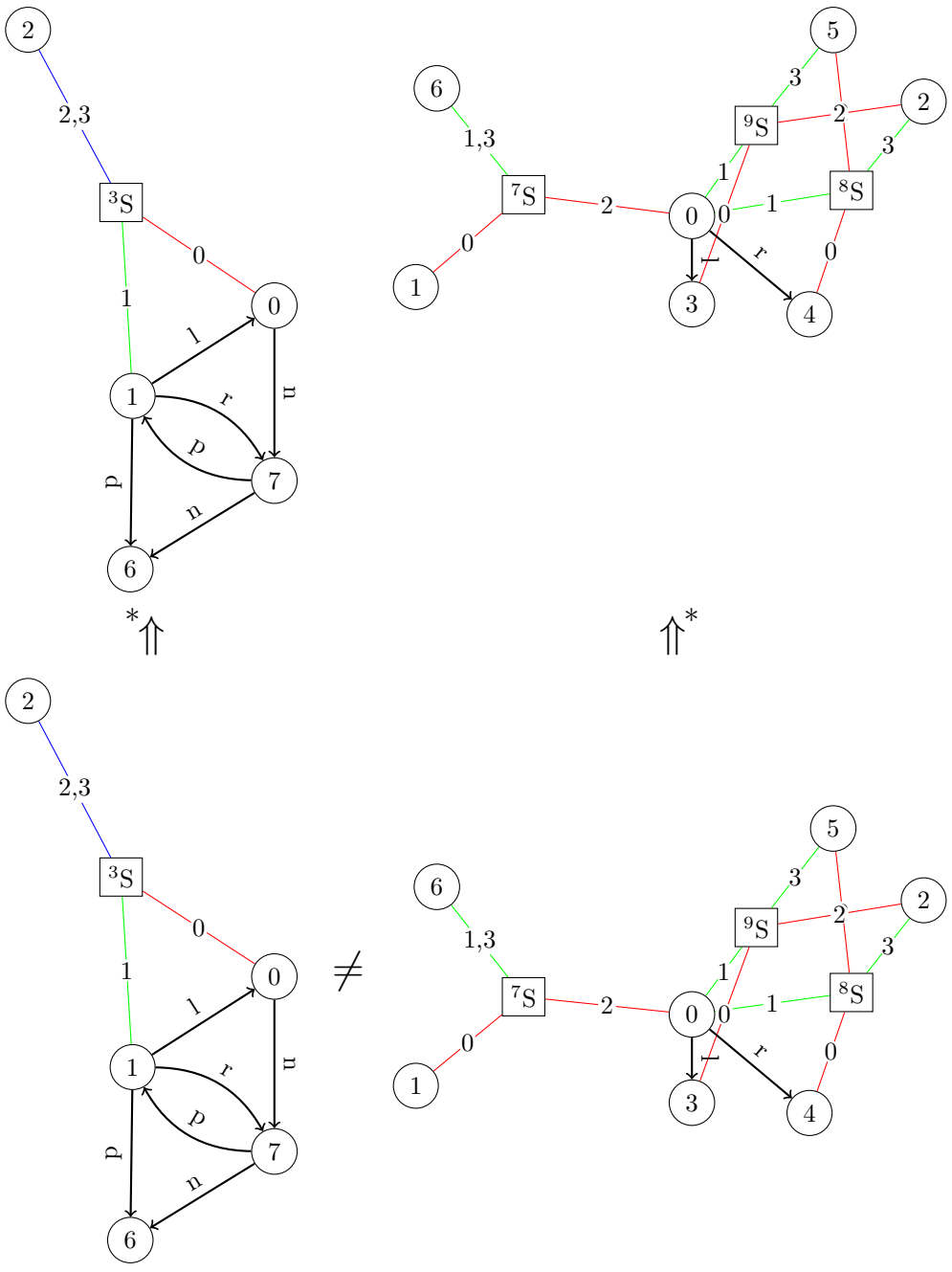


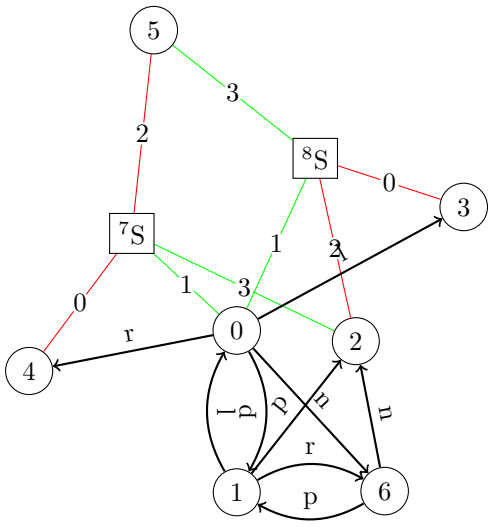
### 1.117 Critical Pair (Not Joinable)



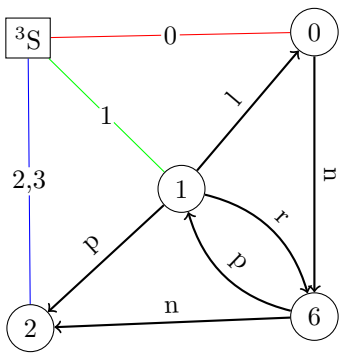

1.9 2.8

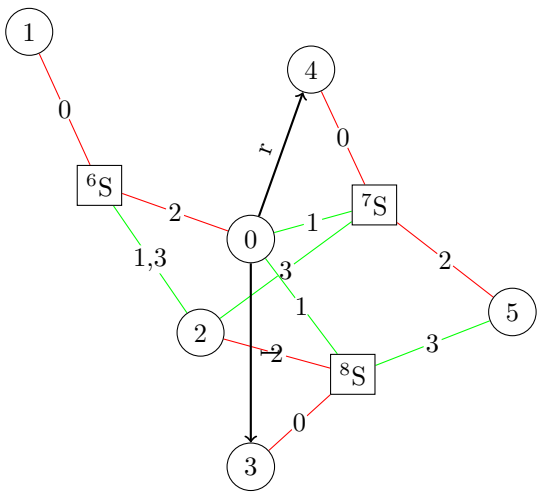


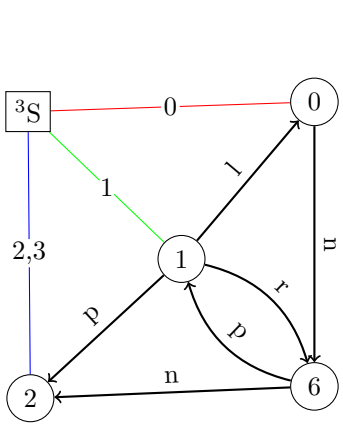
## 1.118 Critical Pair (Not Joinable)




1.9 2.8

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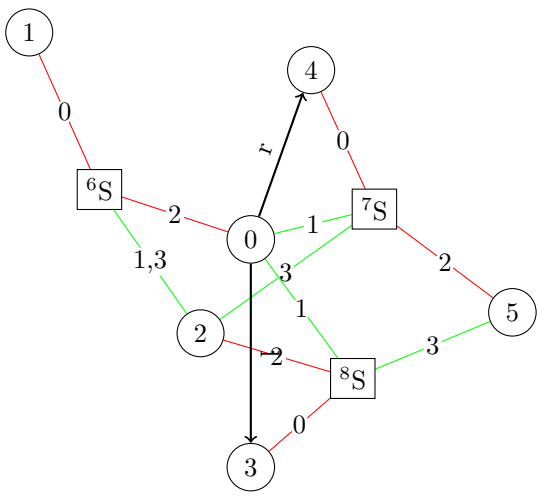
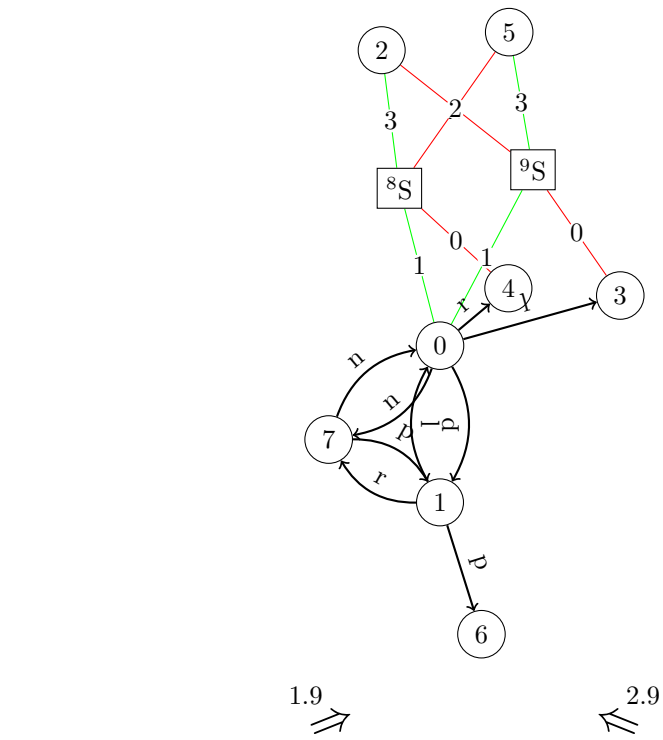


### 1.119 Critical Pair (Not Joinable)

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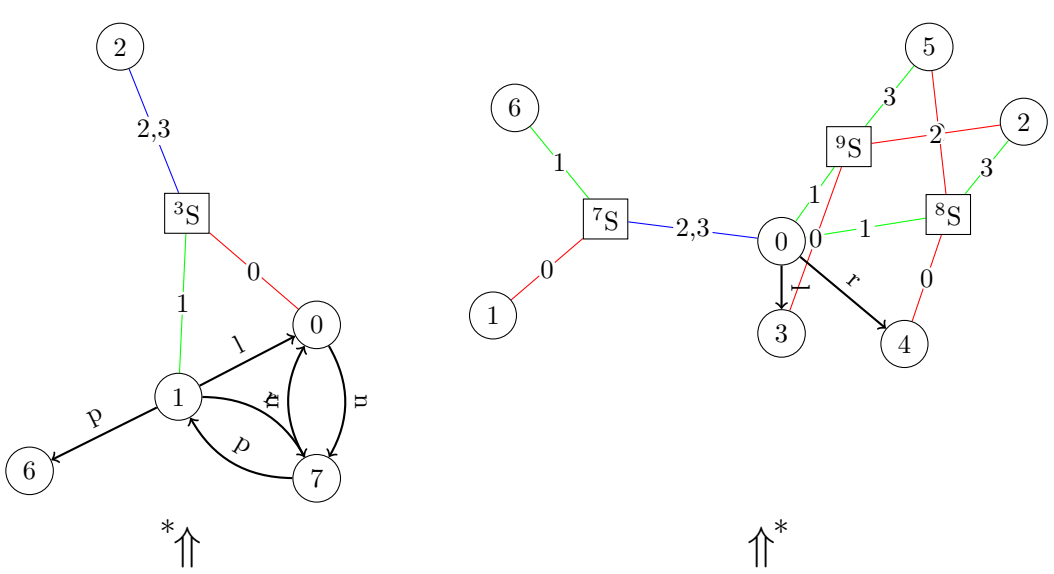


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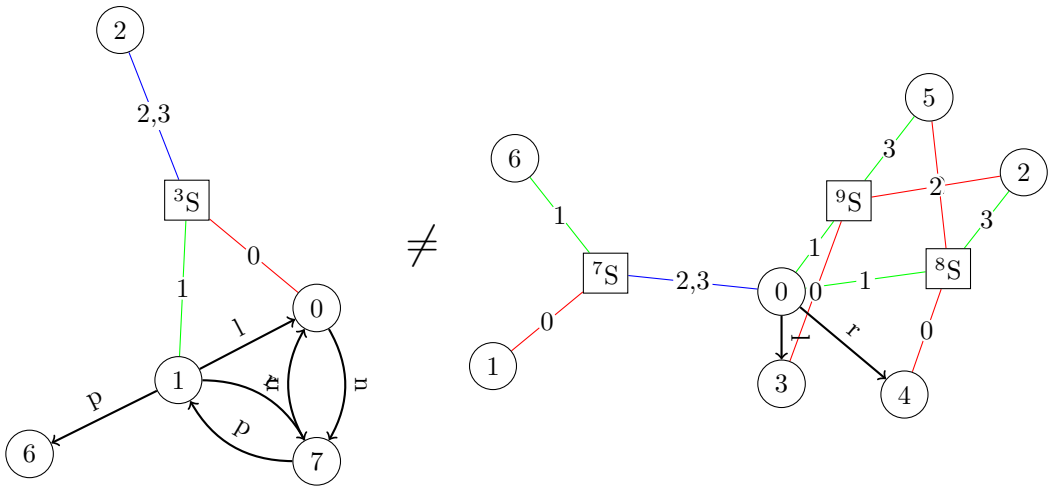
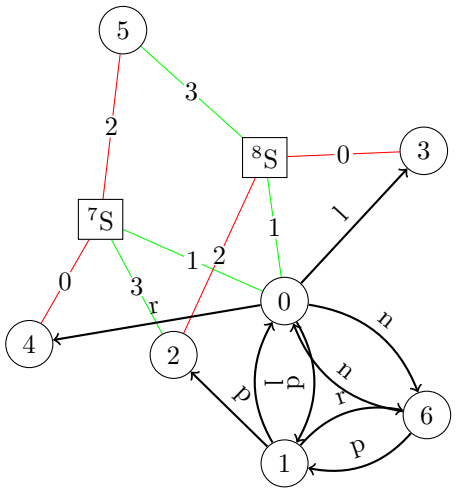


### 1.120 Critical Pair (Not Joinable)

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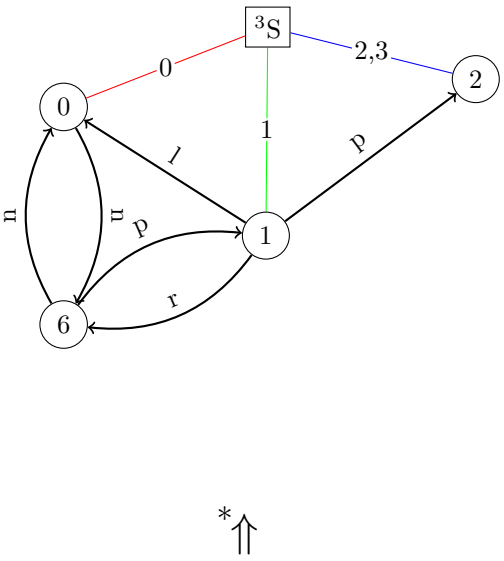


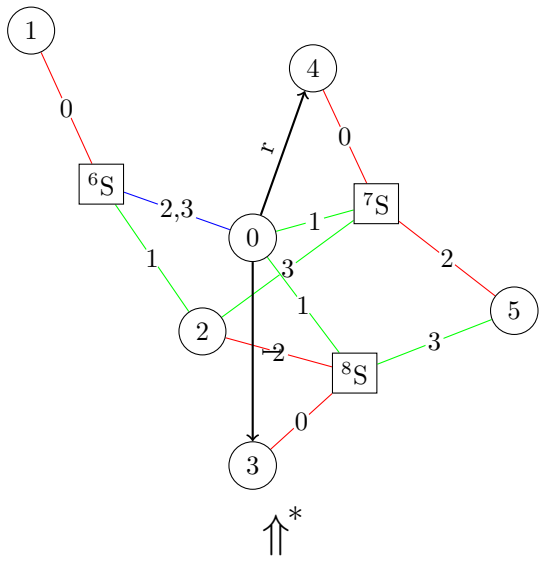


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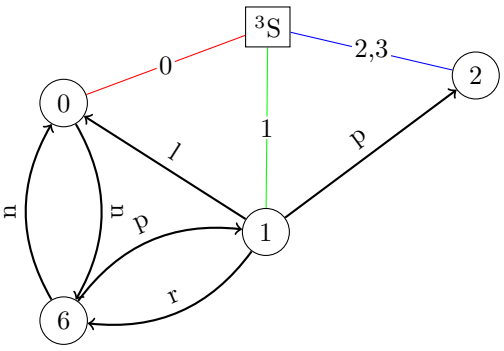


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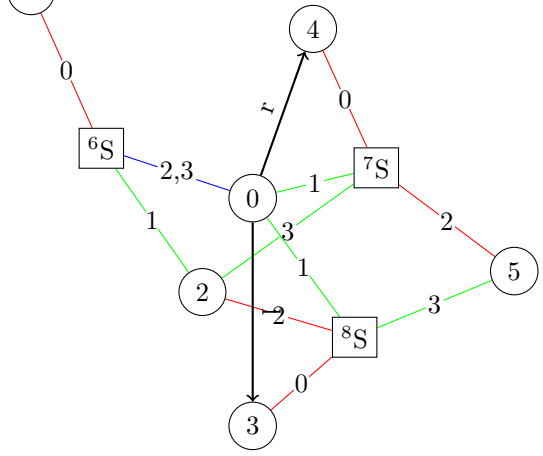
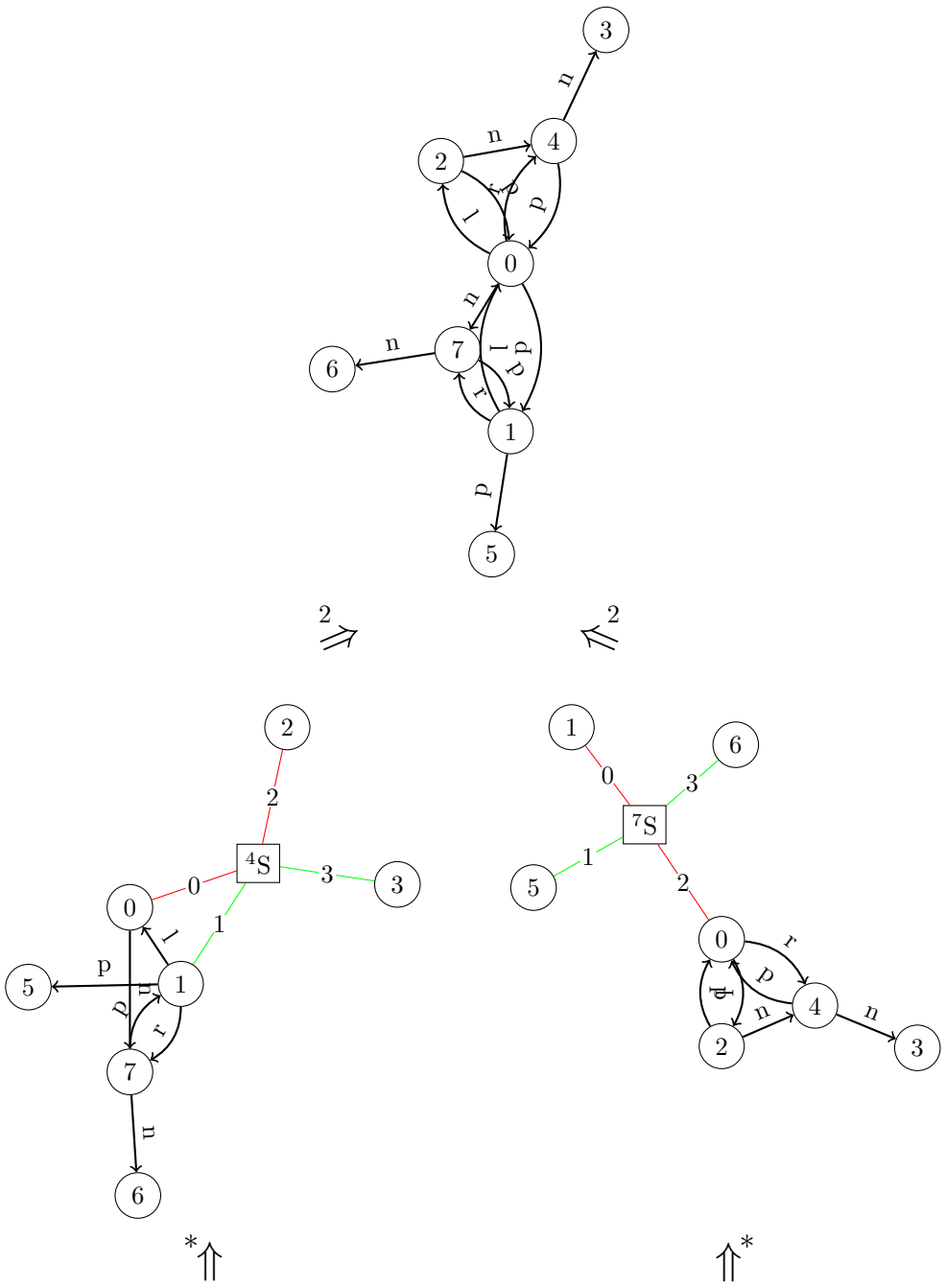


### 1.121 Critical Pair (Not Joinable)

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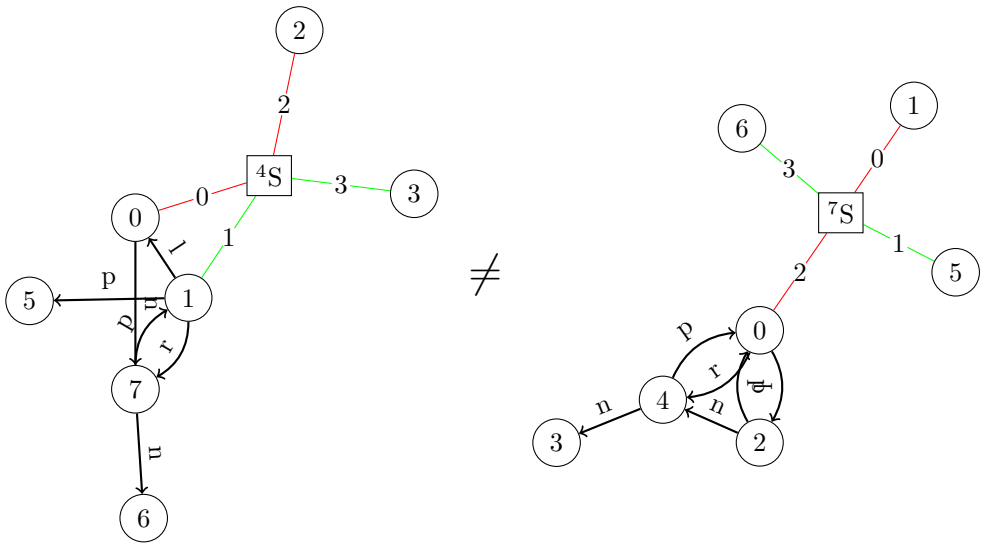
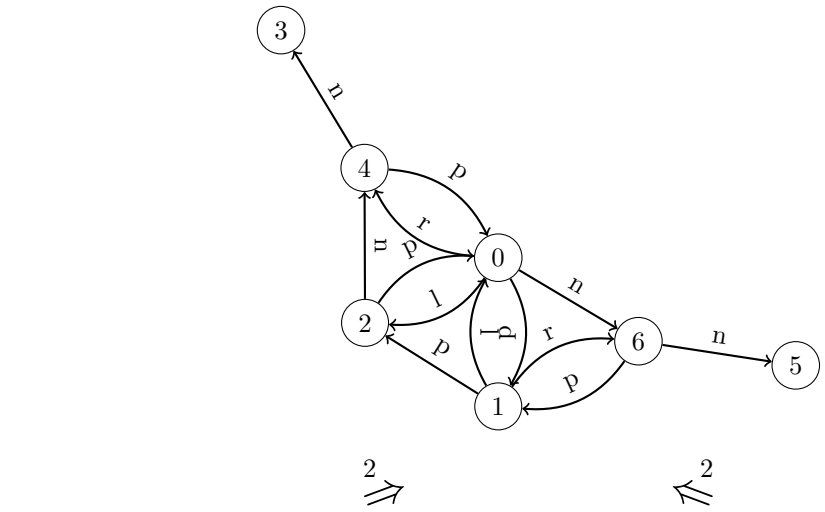


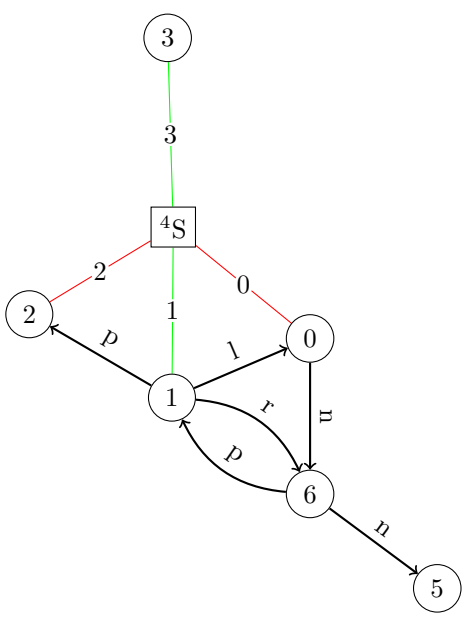
## 1.122 Critical Pair (Not Joinable)

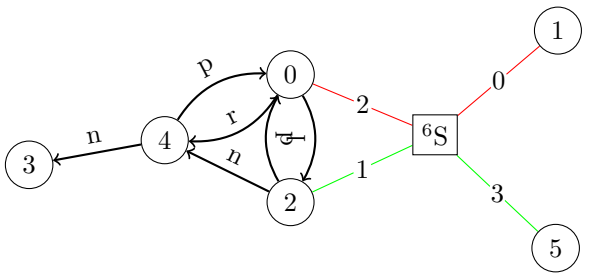


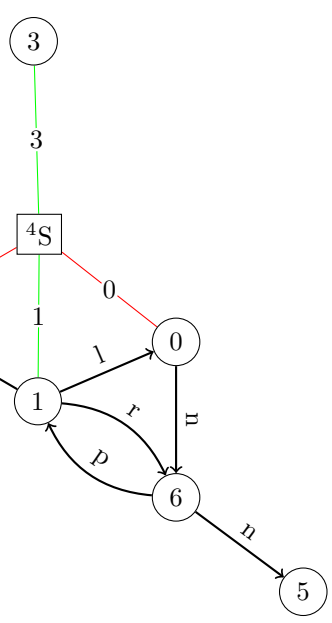






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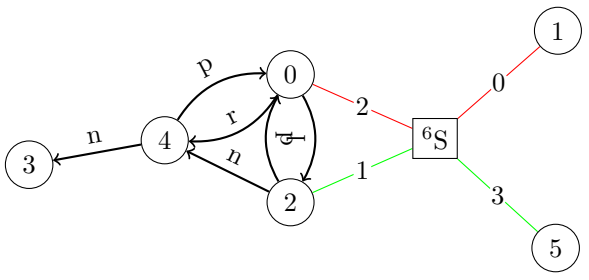
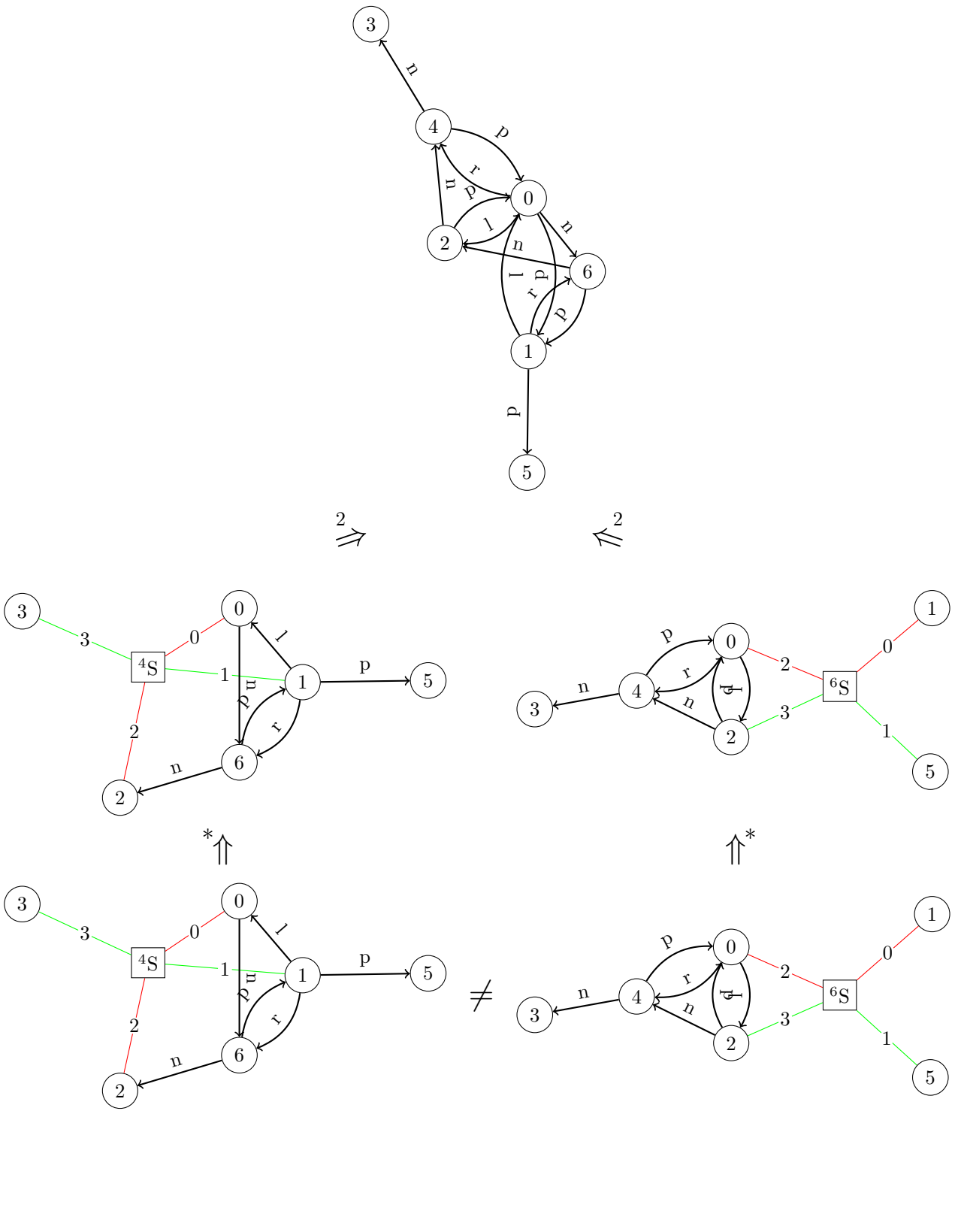
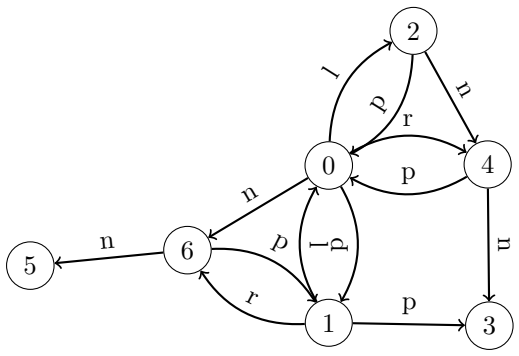
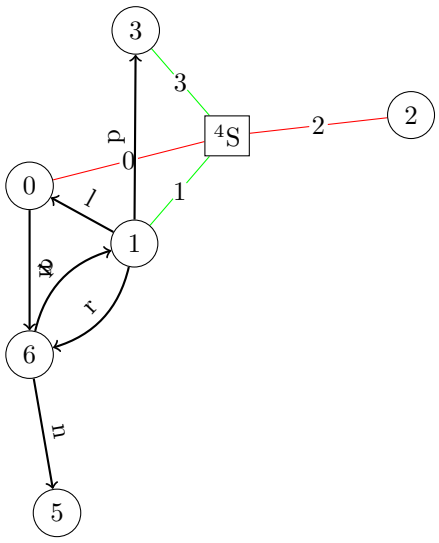


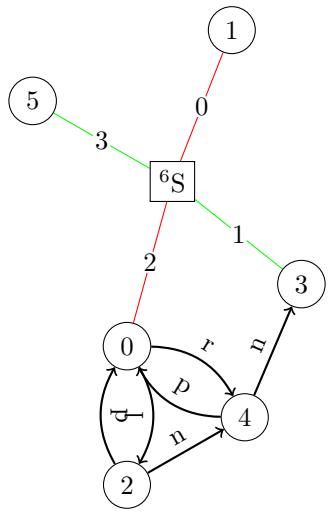
### 1.123 Critical Pair (Not Joinable)

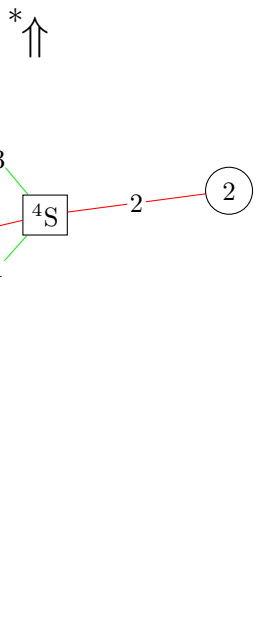


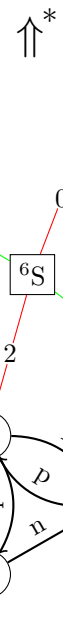
### 1.124 Critical Pair (Not Joinable)

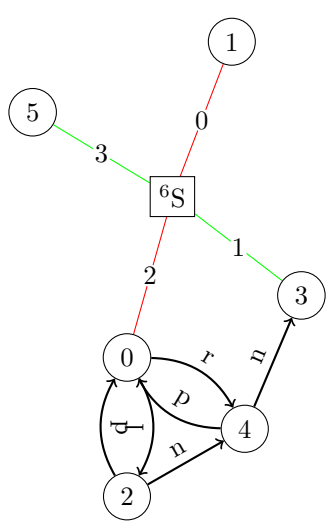




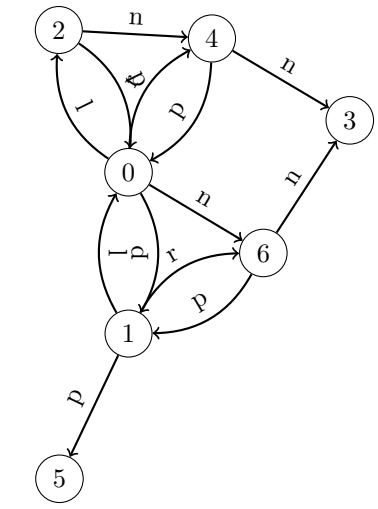





### 1.125 Critical Pair (Not Joinable)

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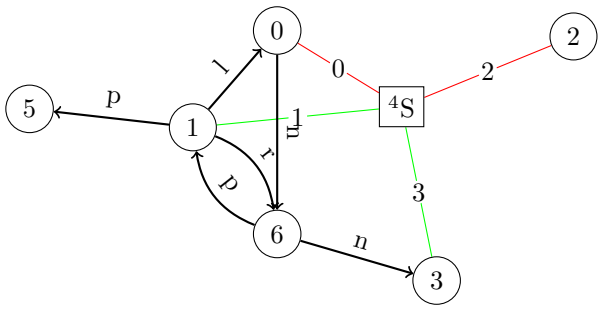


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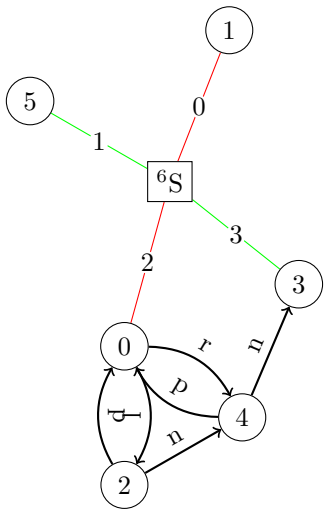


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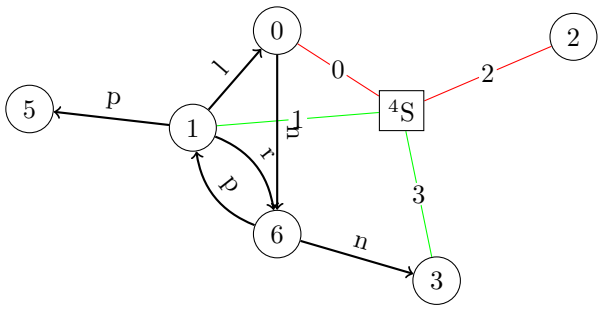
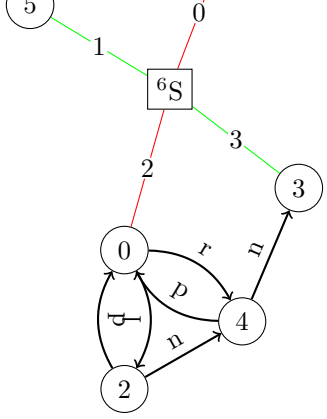
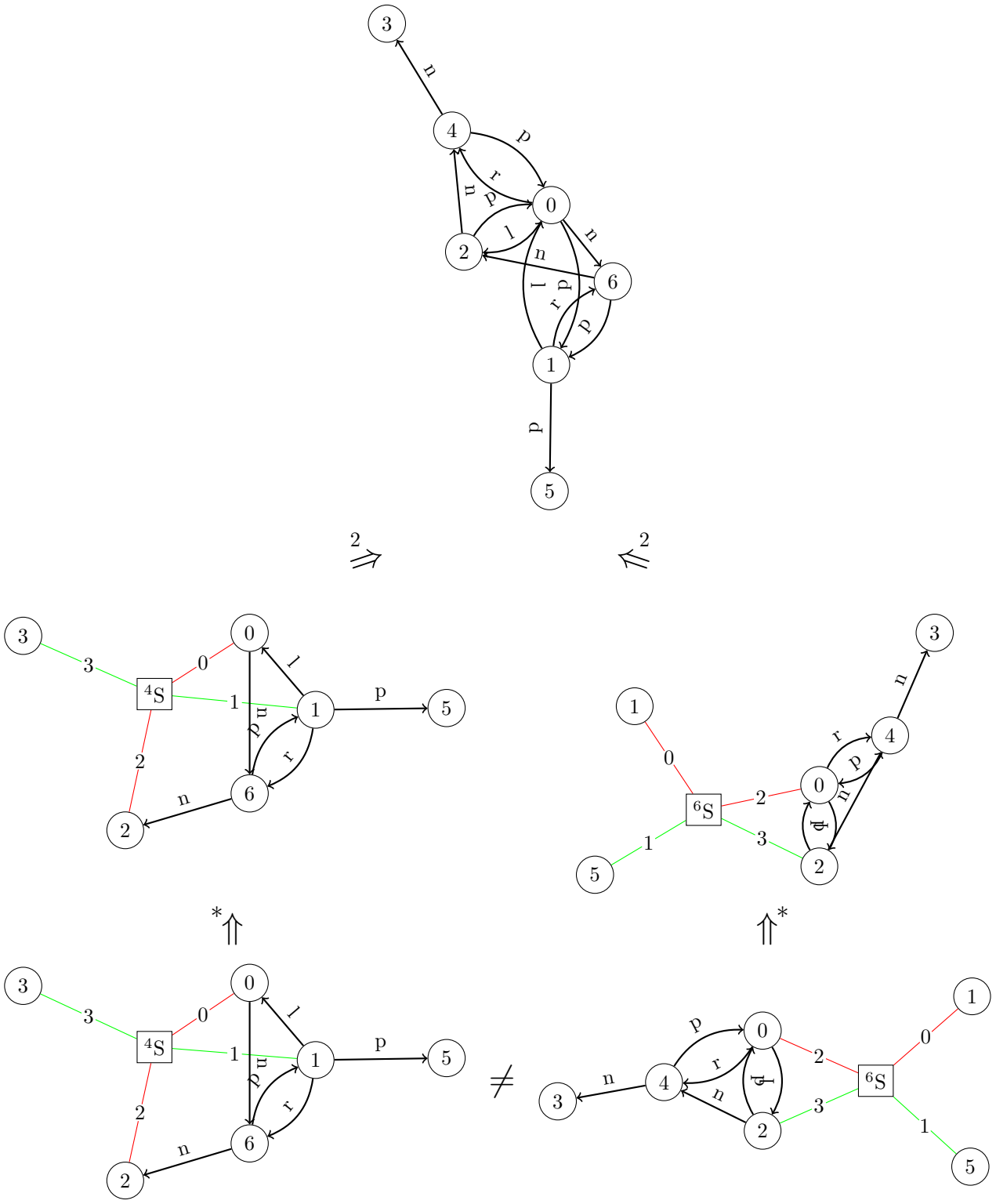
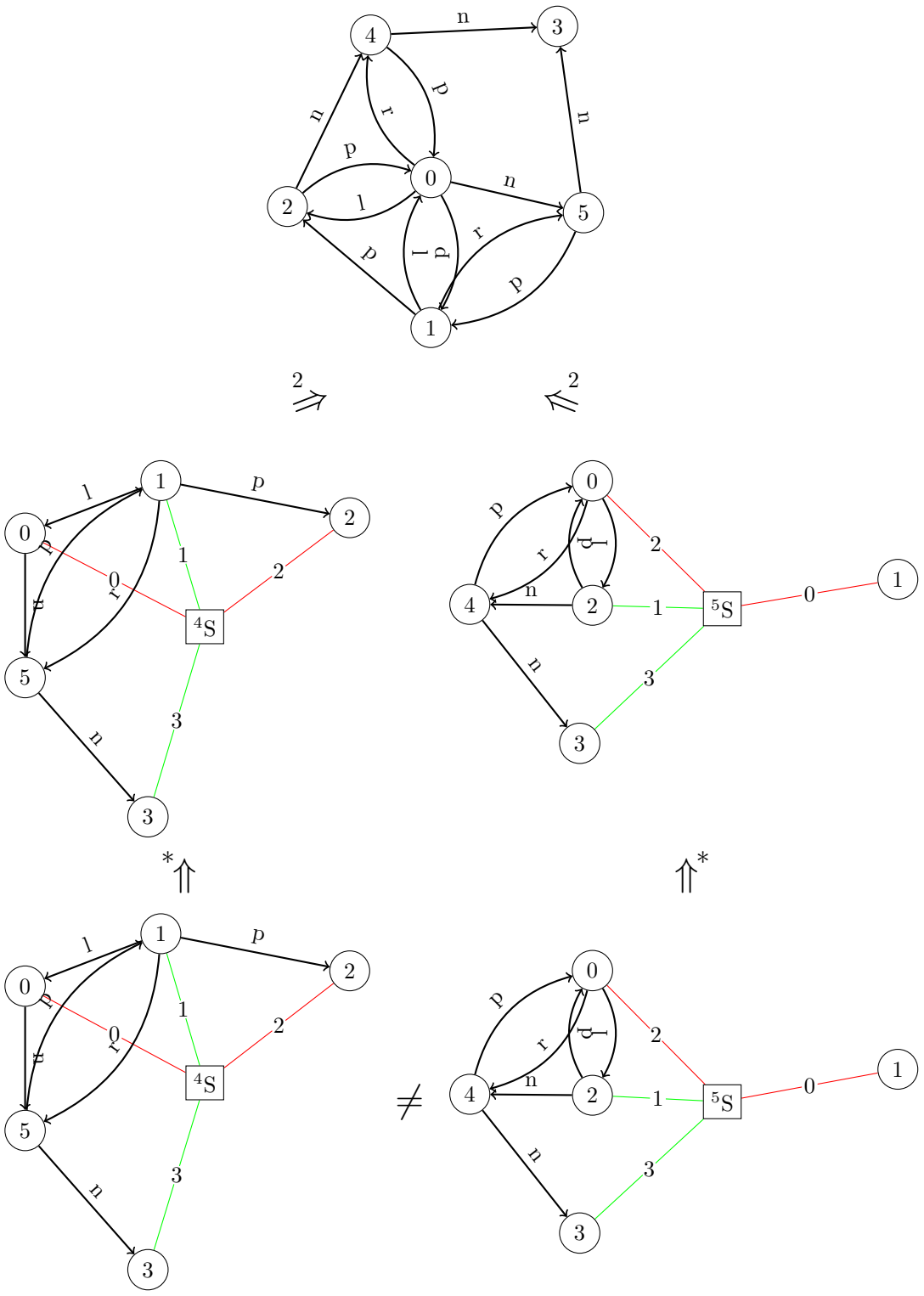


### 1.126 Critical Pair (Not Joinable)



### 1.127 Critical Pair (Not Joinable)

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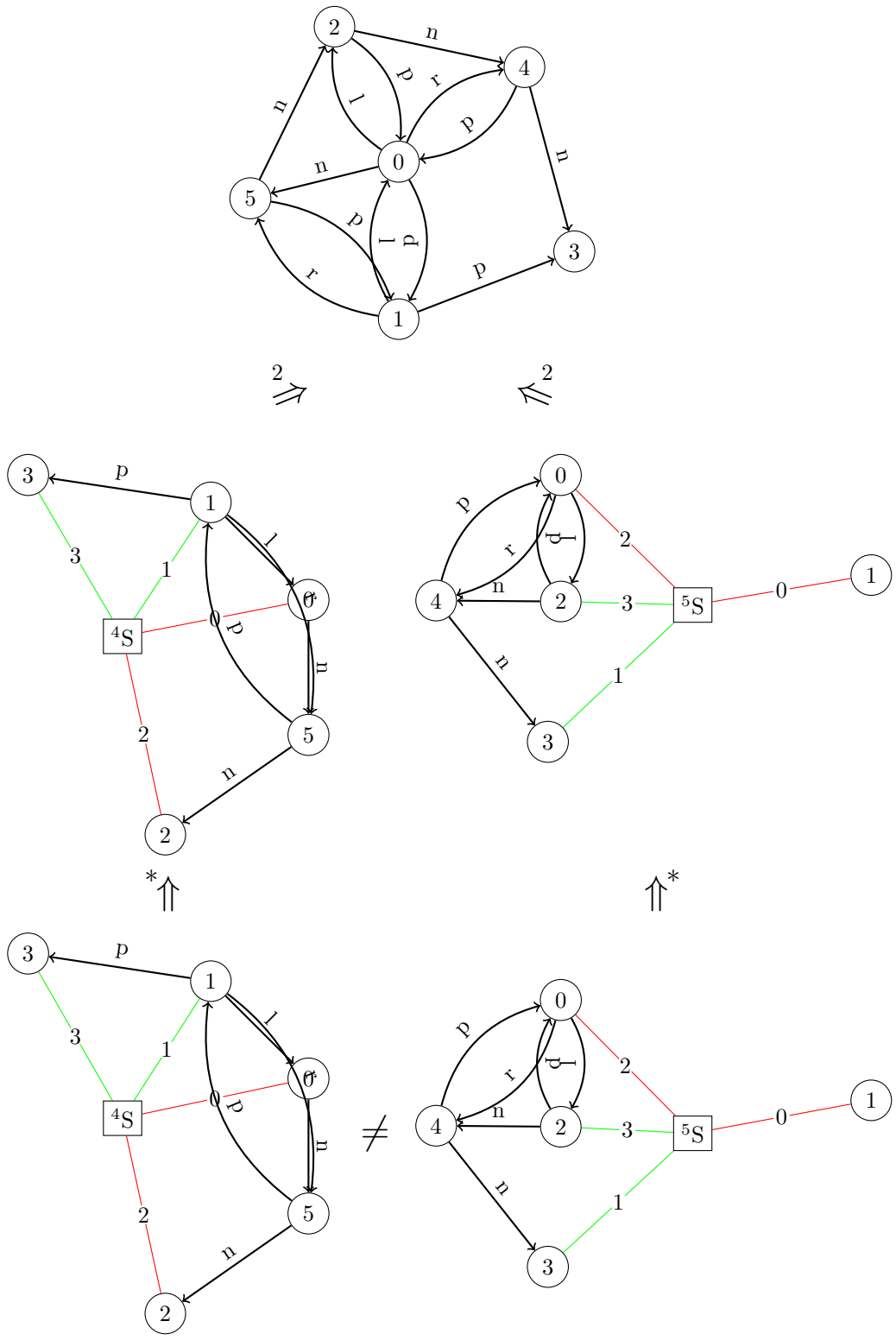
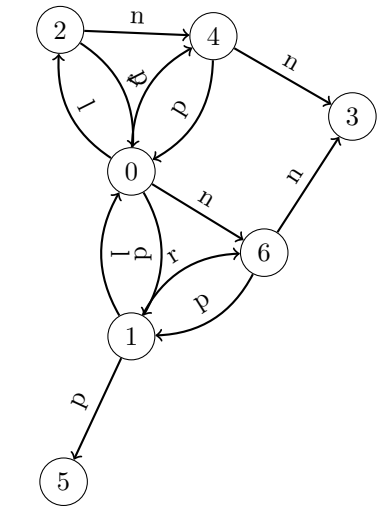
### 1.128 Critical Pair (Not Joinable)



### 1.129 Critical Pair (Not Joinable)

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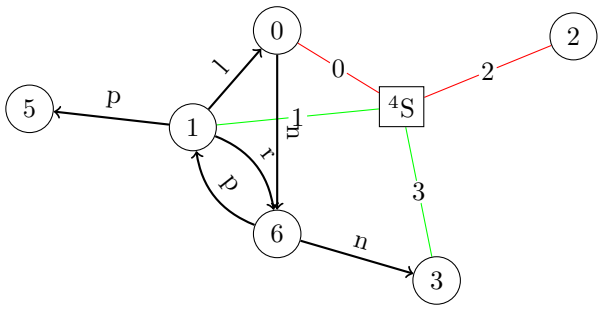


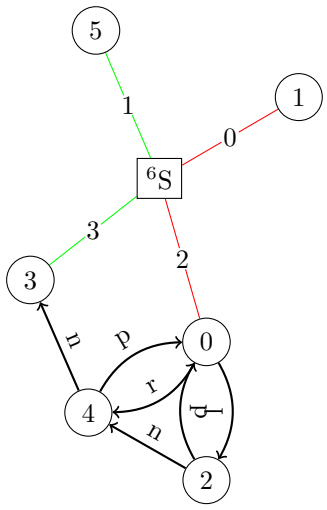


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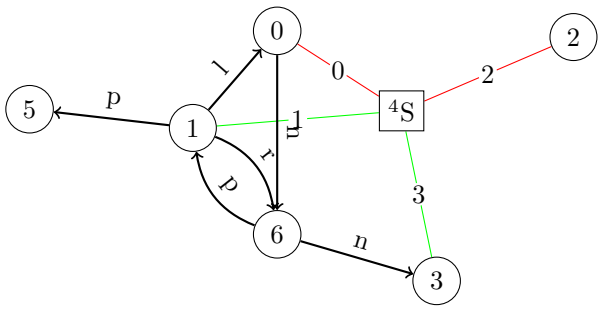


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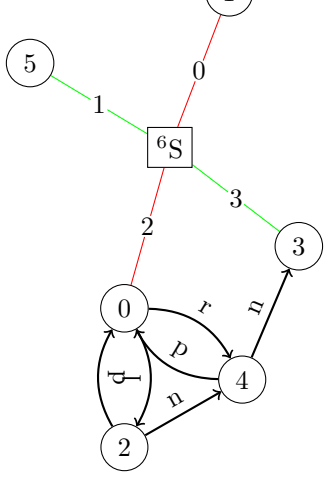
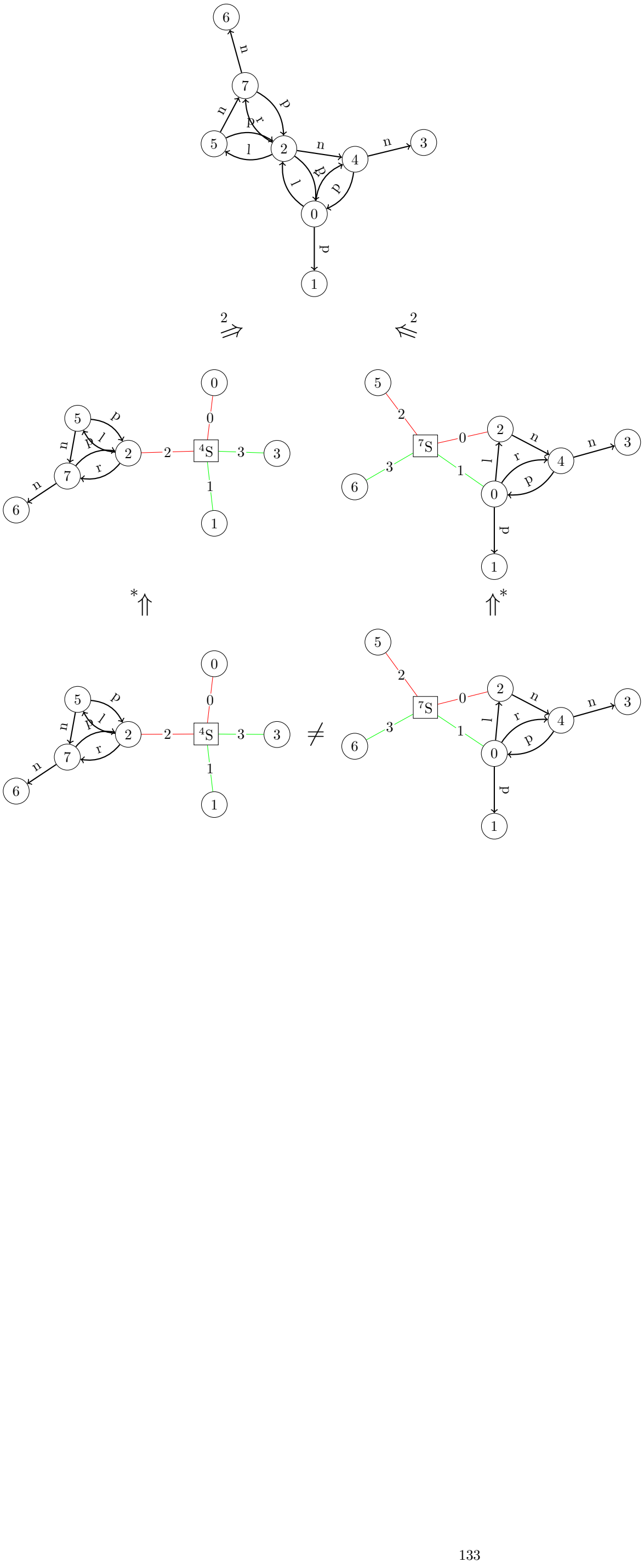
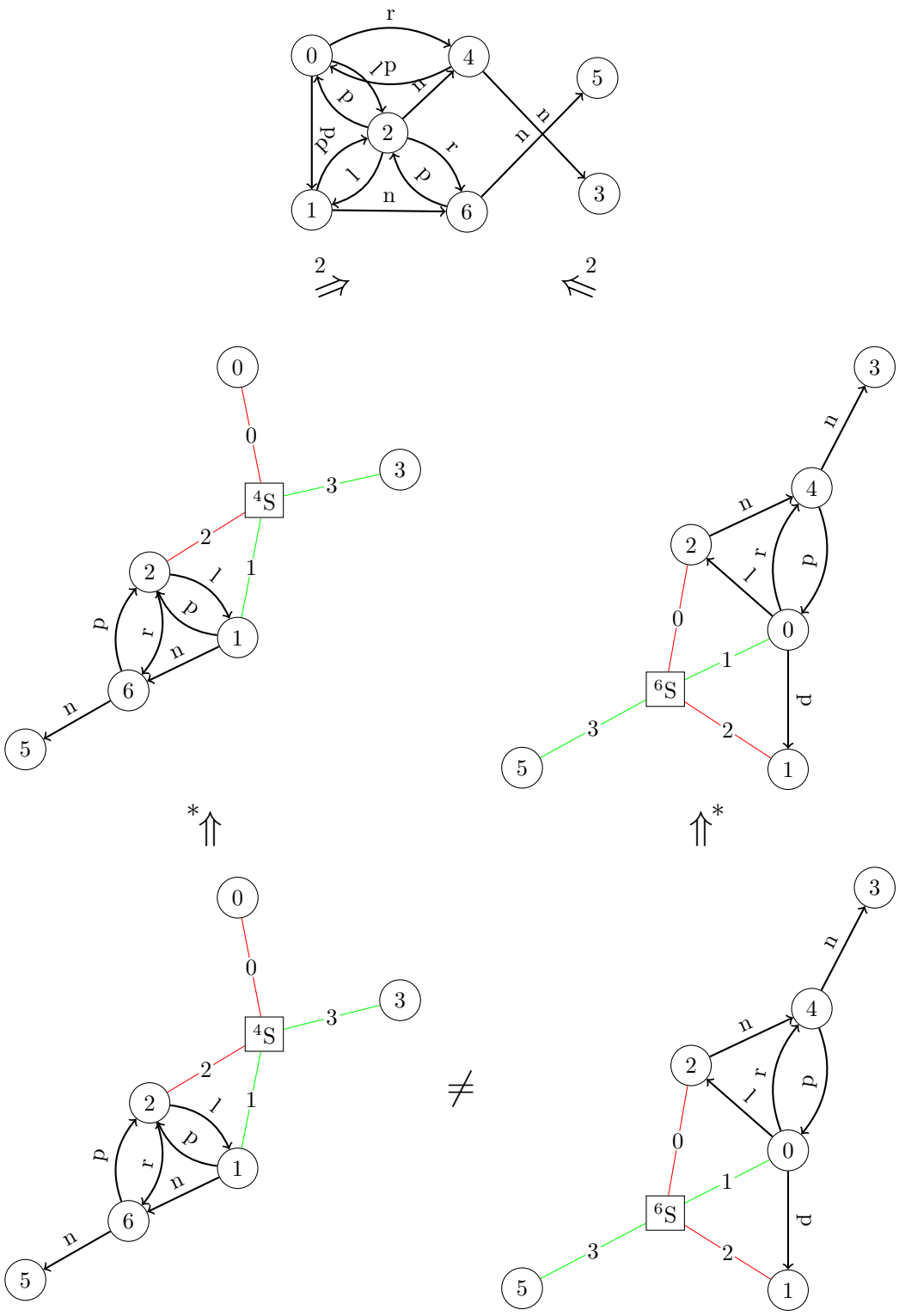


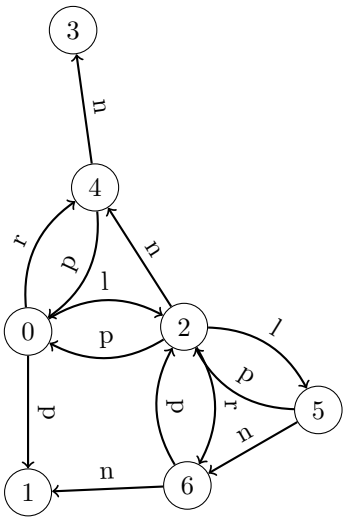
### 1.130 Critical Pair (Not Joinable)

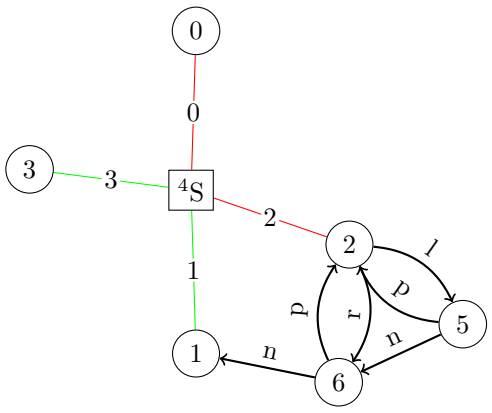


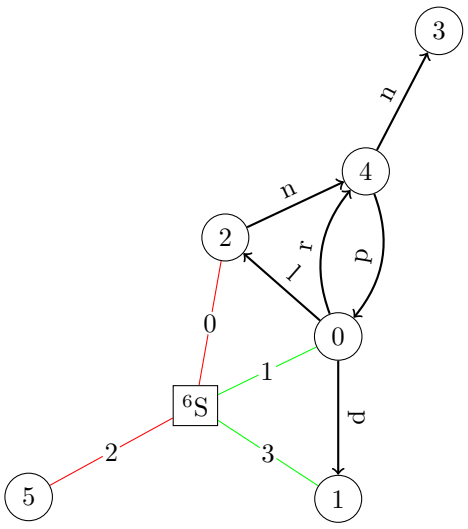
### 1.131 Critical Pair (Not Joinable)

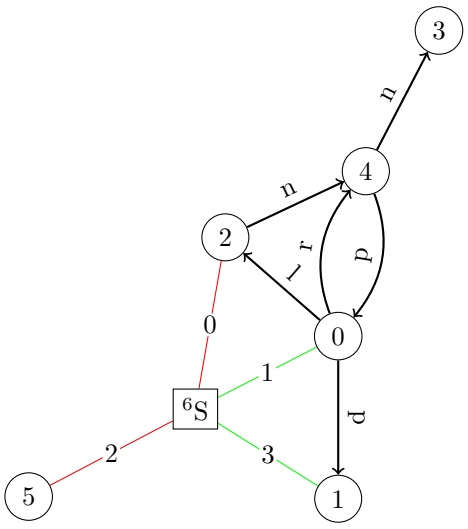


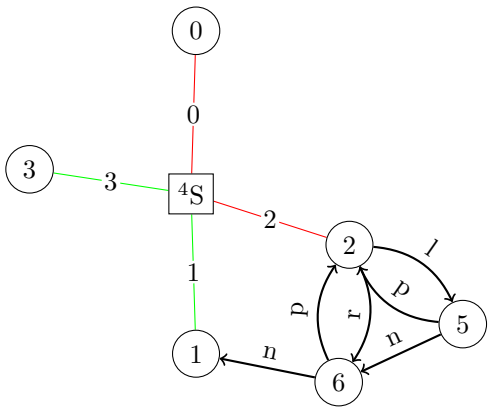
### 1.132 Critical Pair (Not Joinable)







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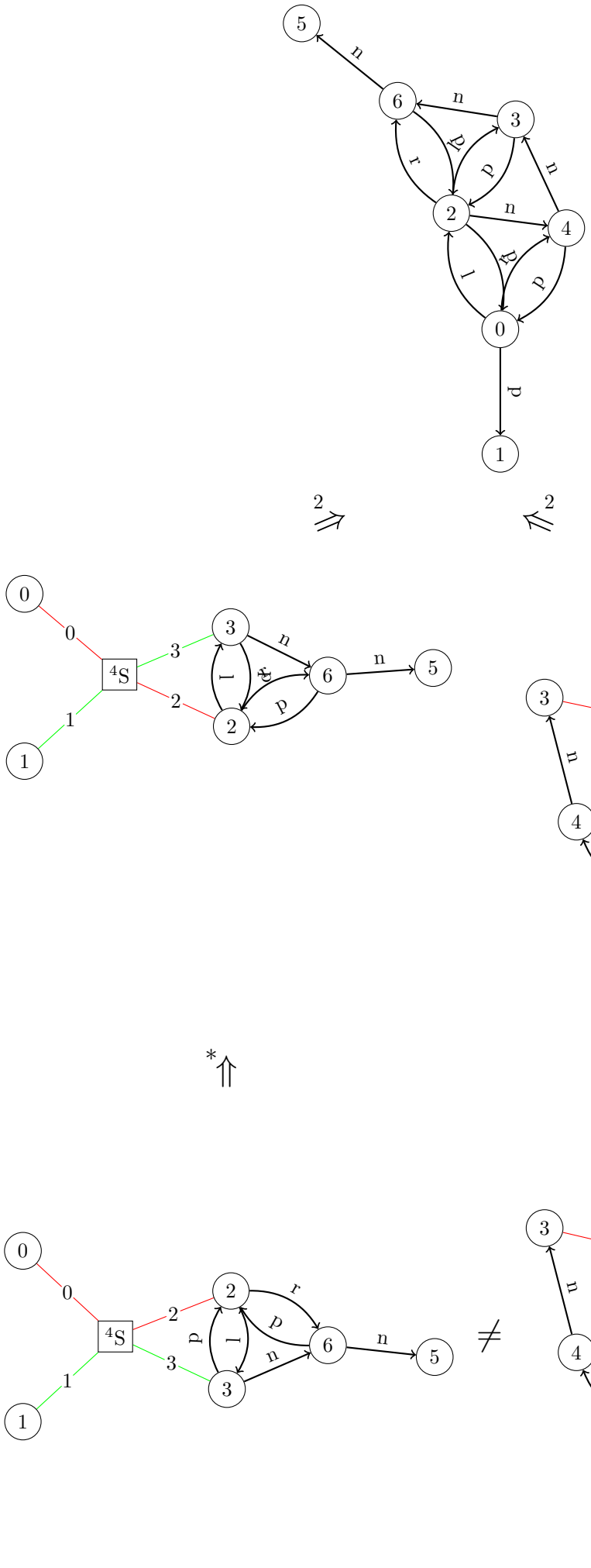
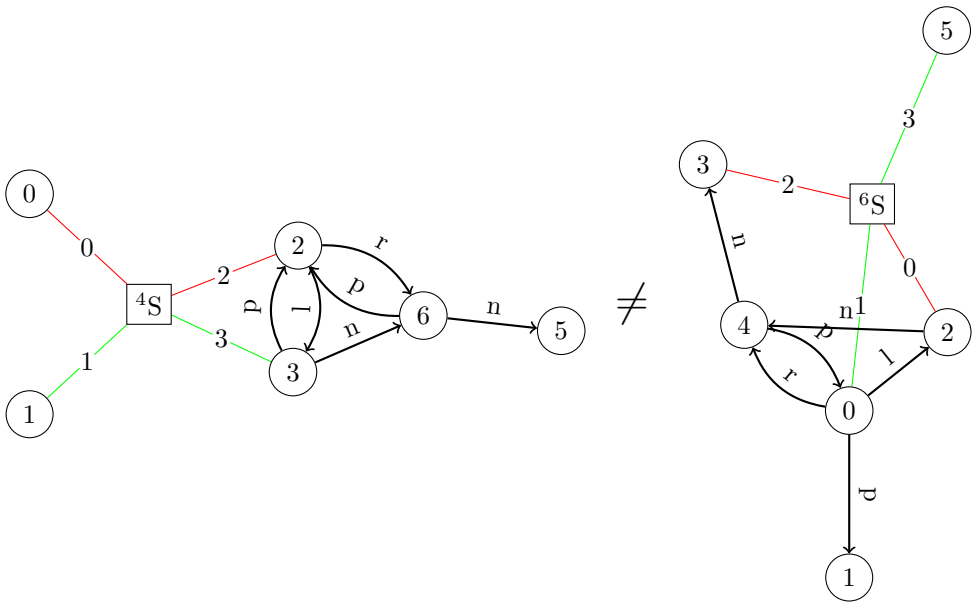
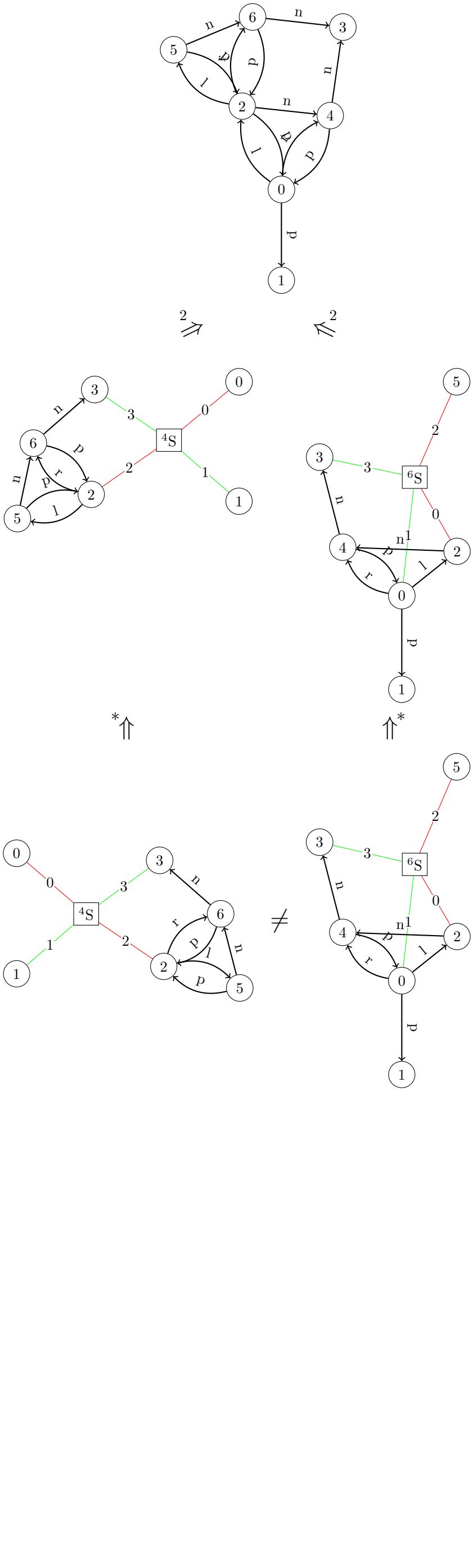
### 1.133 Critical Pair (Not Joinable)

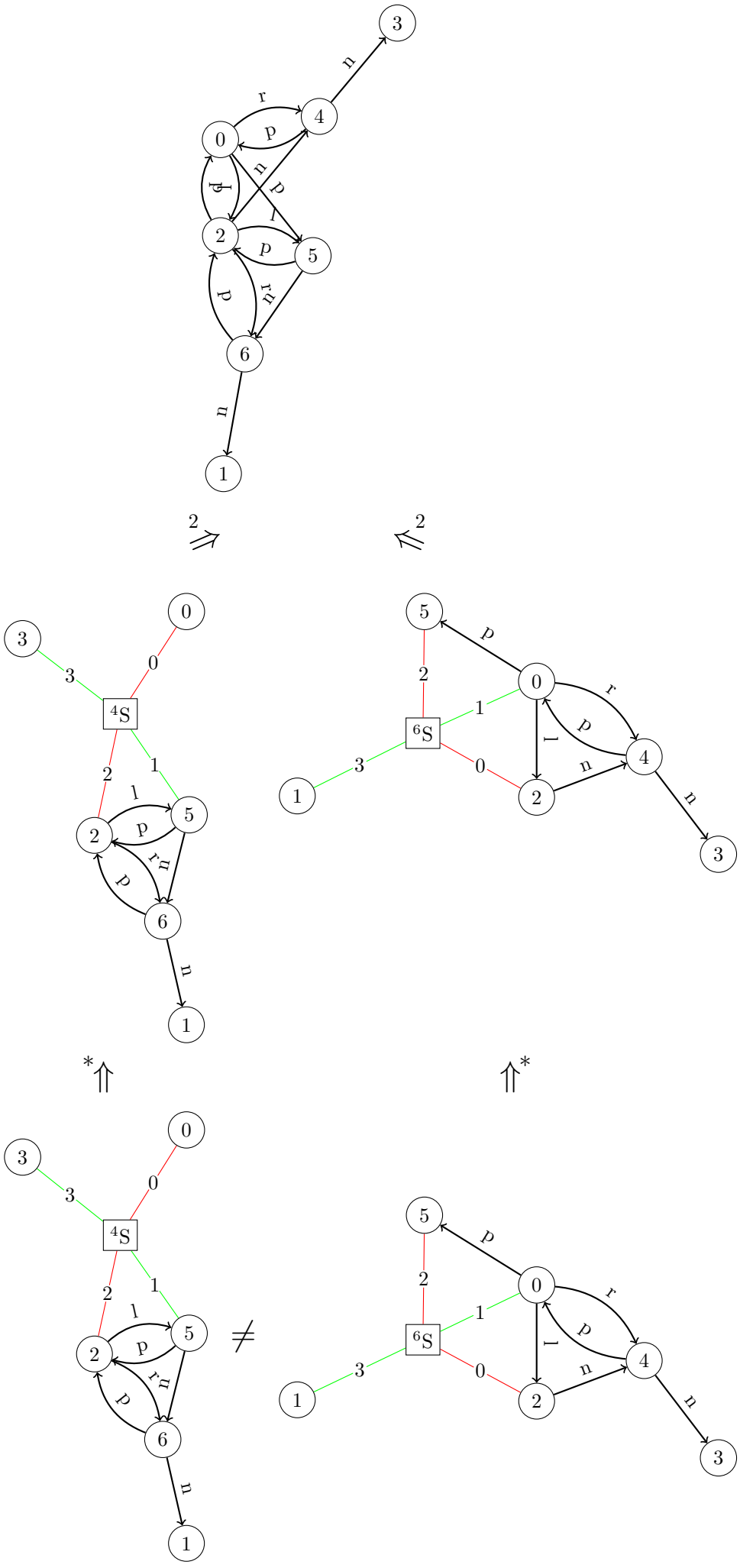


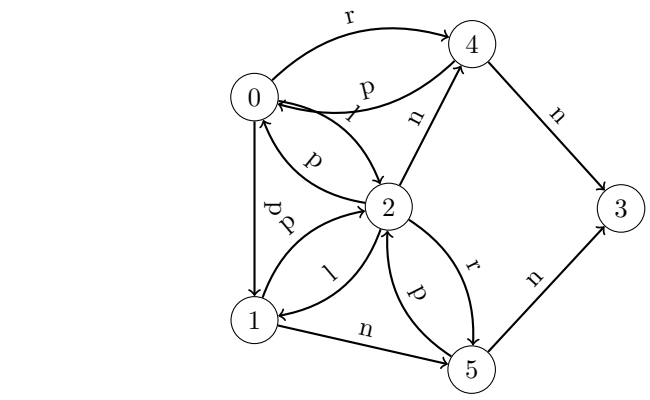
### 1.134 Critical Pair (Not Joinable)

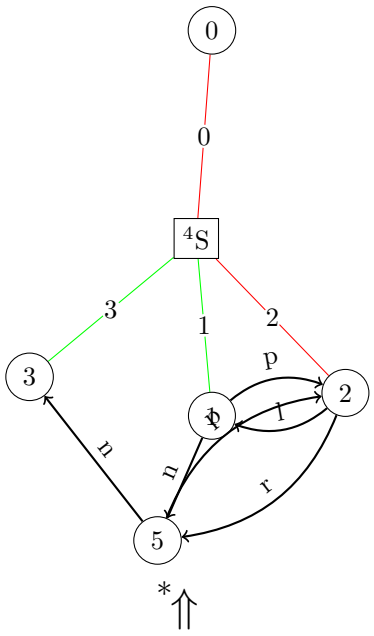


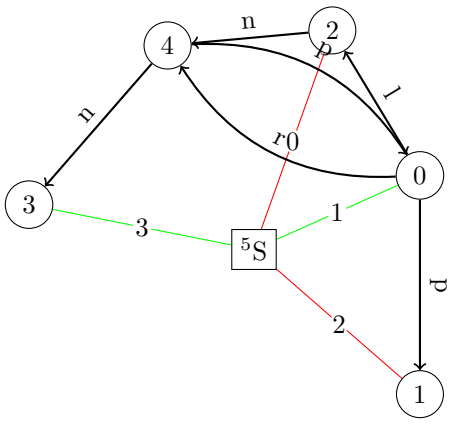
### 1.135 Critical Pair (Not Joinable)

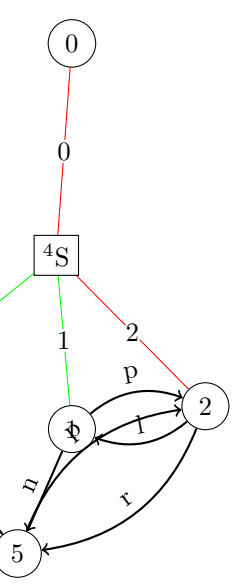


### 1.136 Critical Pair (Not Joinable)









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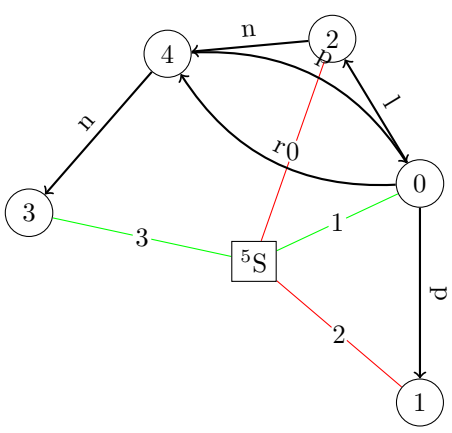
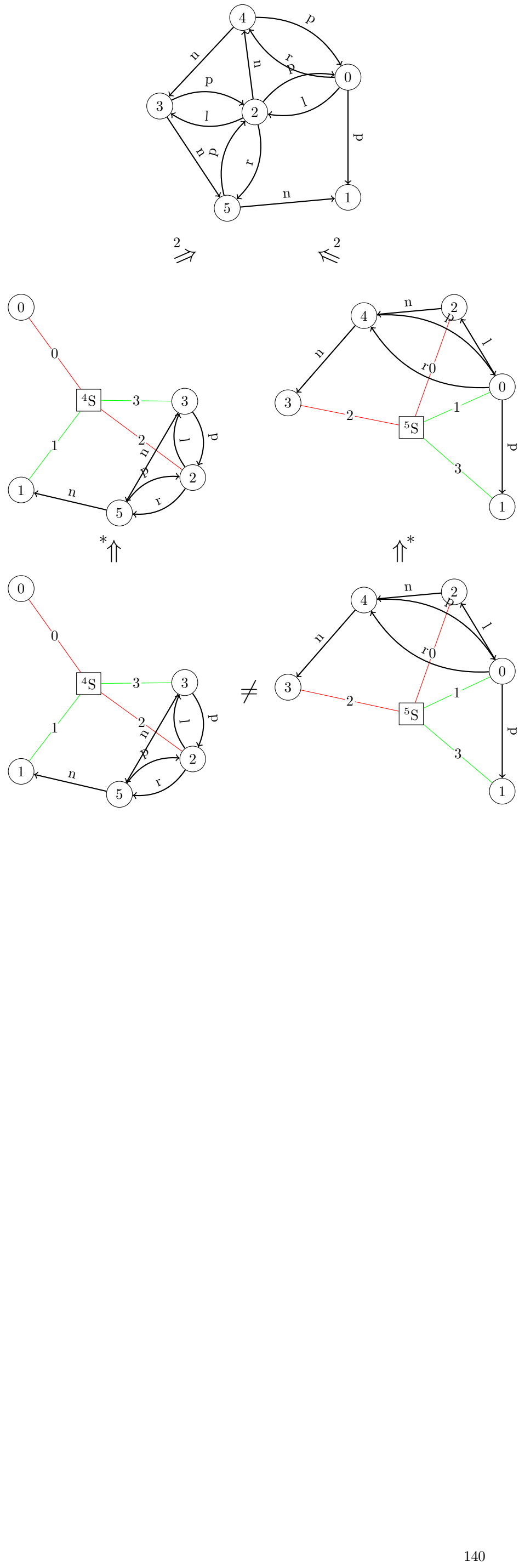
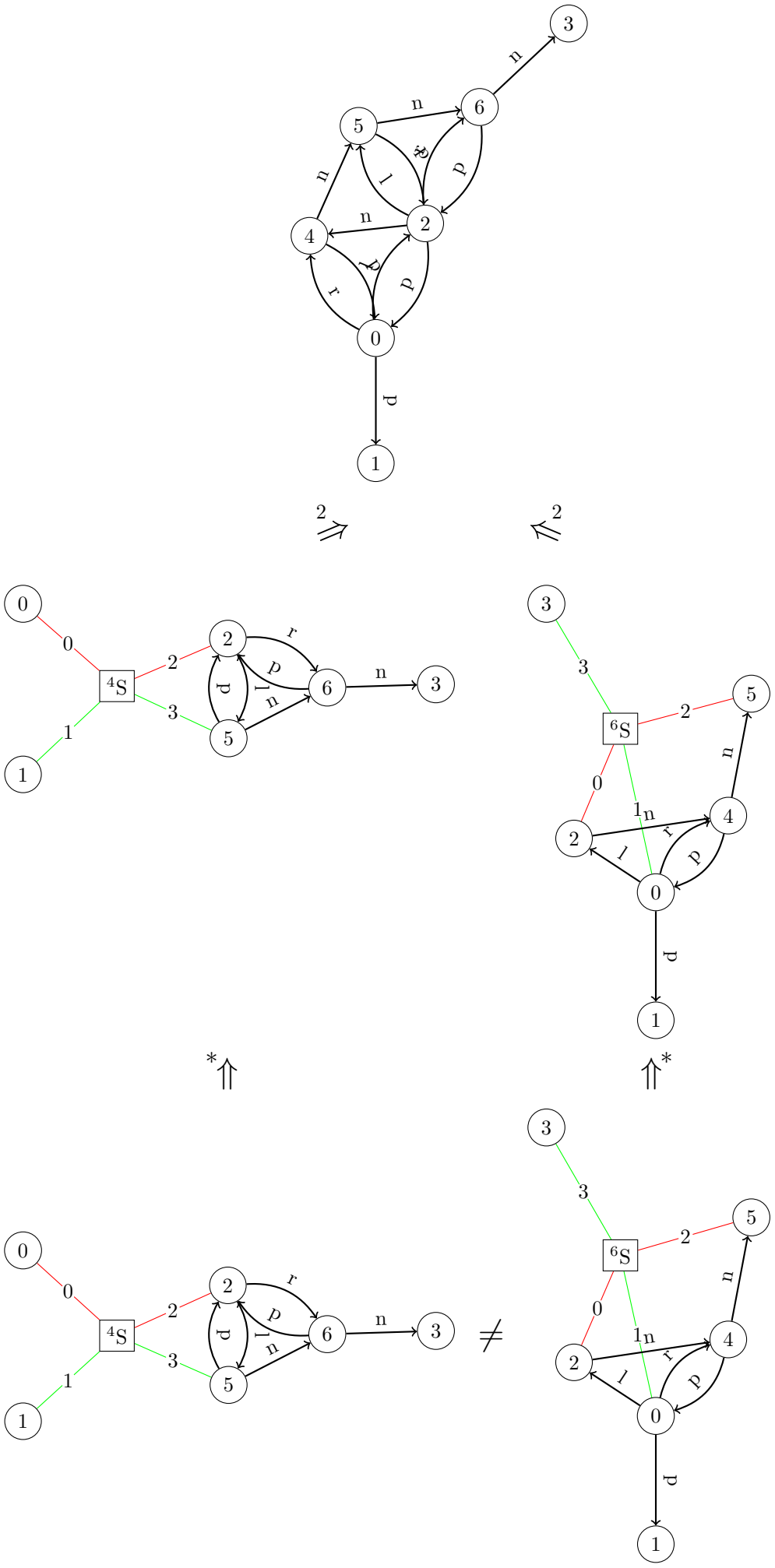


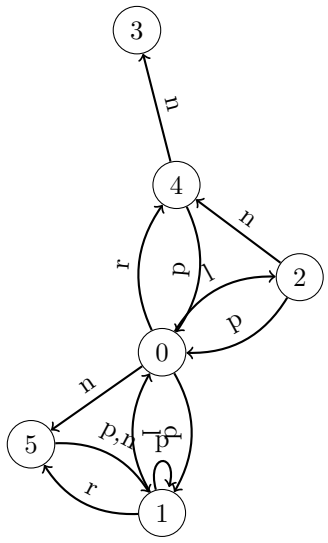
### 1.137 Critical Pair (Not Joinable)



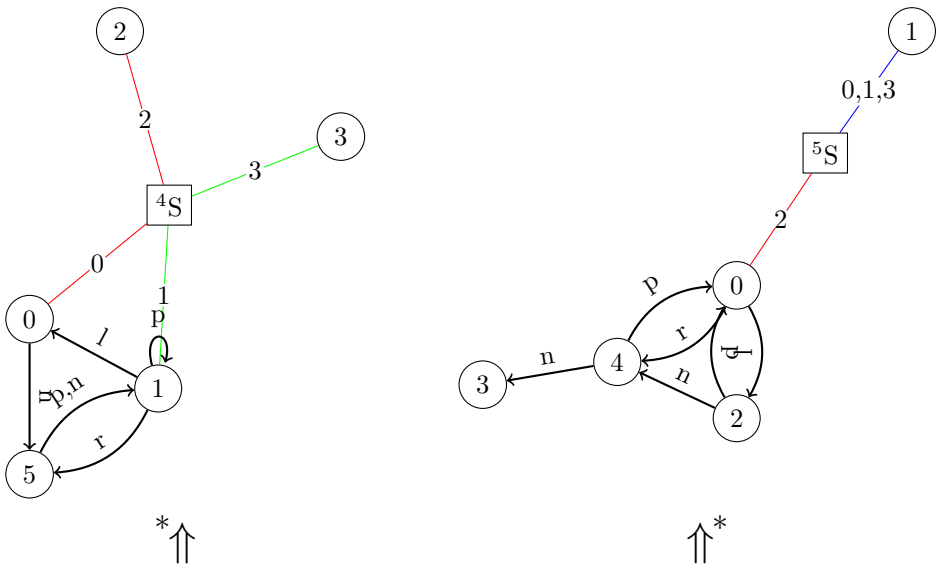
## 1.138 Critical Pair (Not Joinable)



### 1.139 Critical Pair (Not Joinable)




2 2.1

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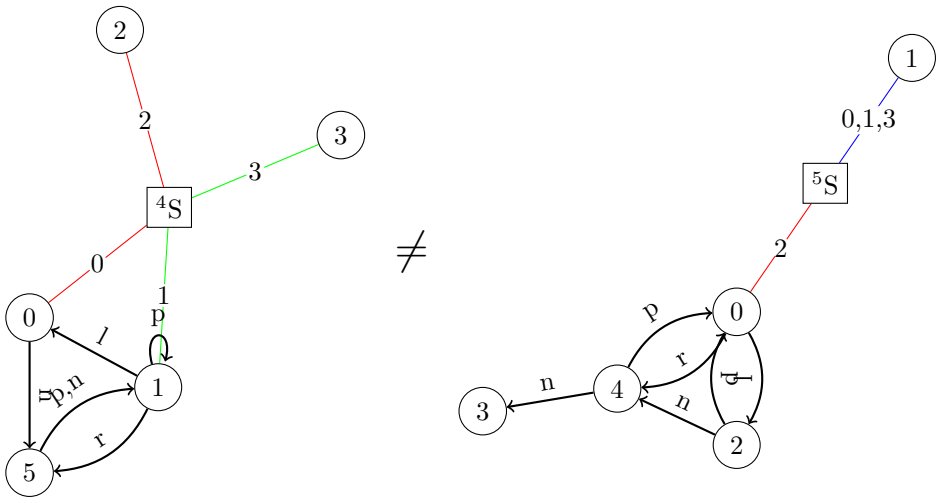
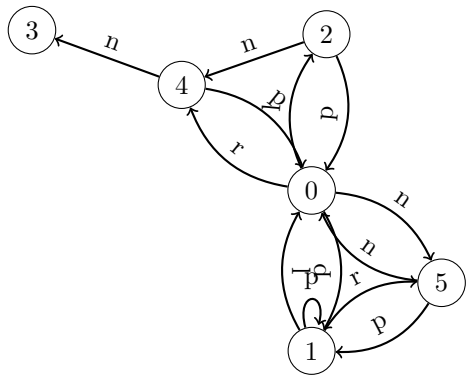
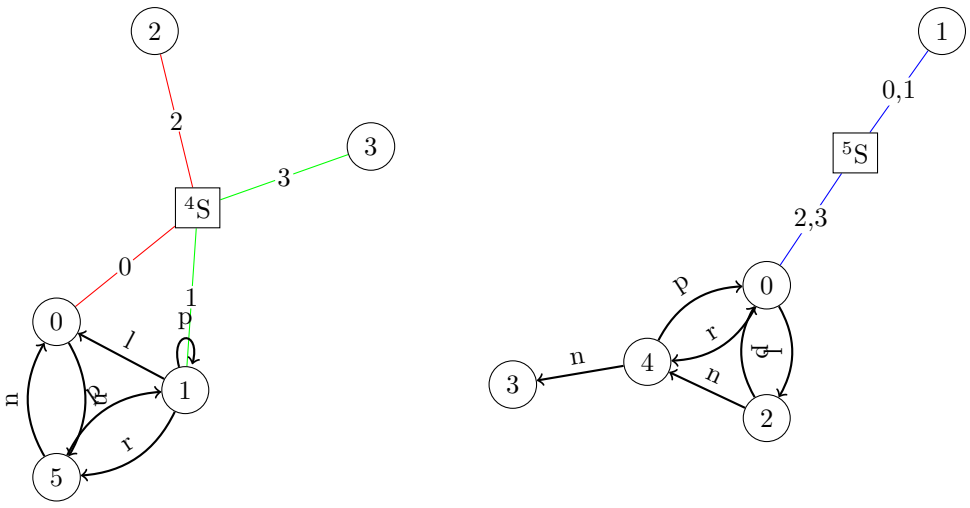


### 1.140 Critical Pair (Not Joinable)




2 ⇛ ⇚ 2.2

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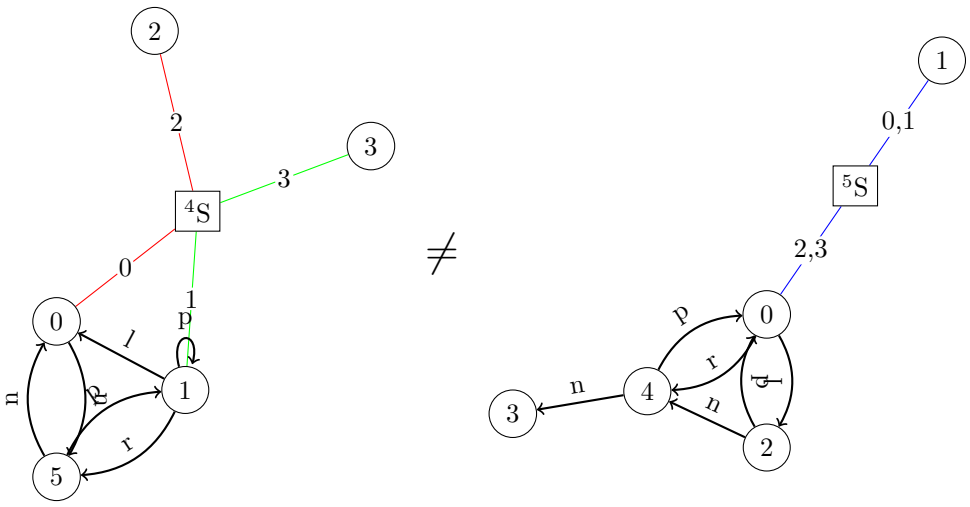
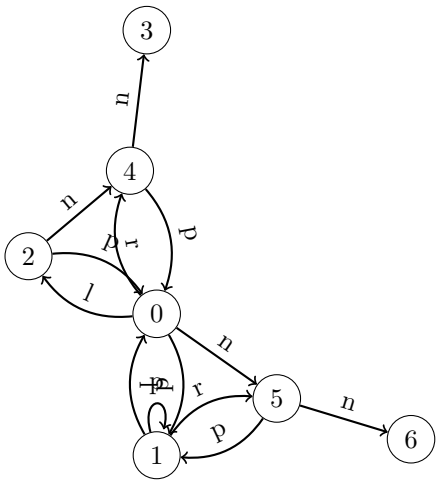
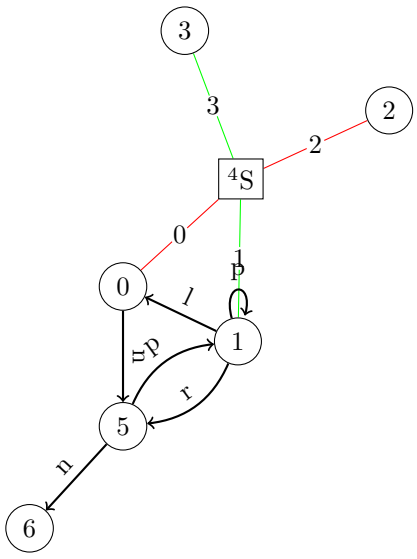
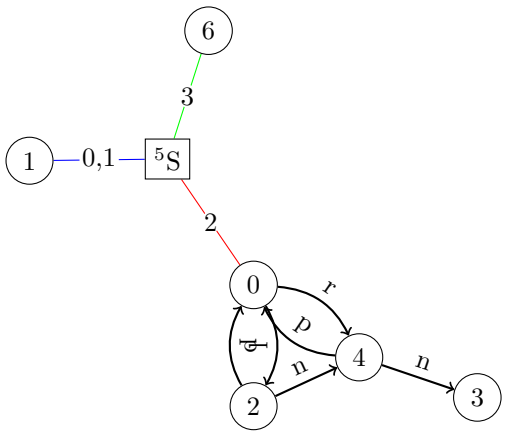


### 1.141 Critical Pair (Not Joinable)




2 2.3

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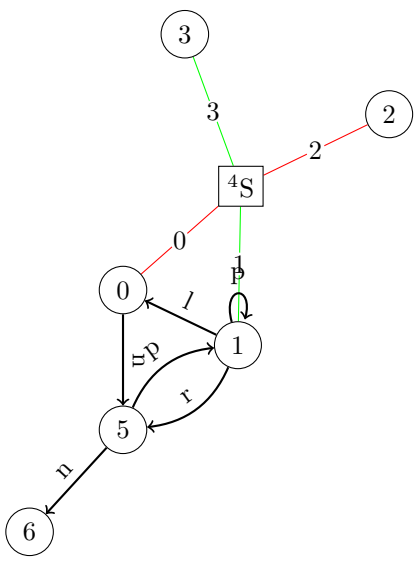


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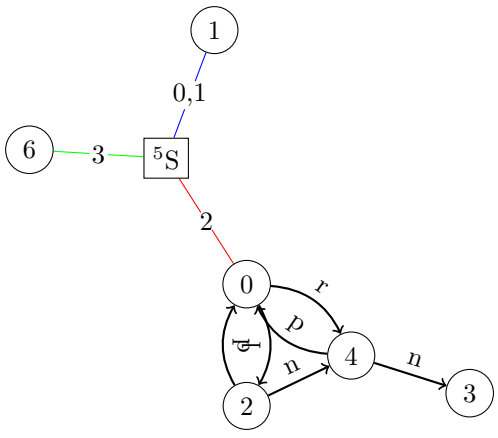
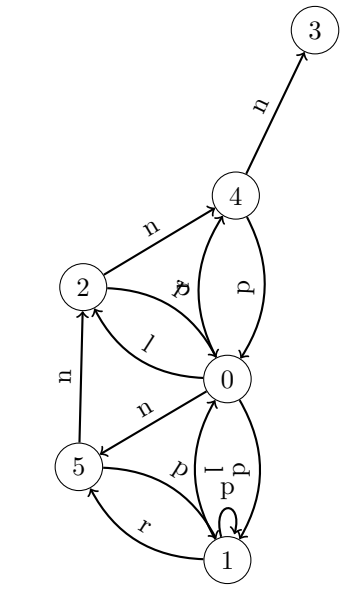
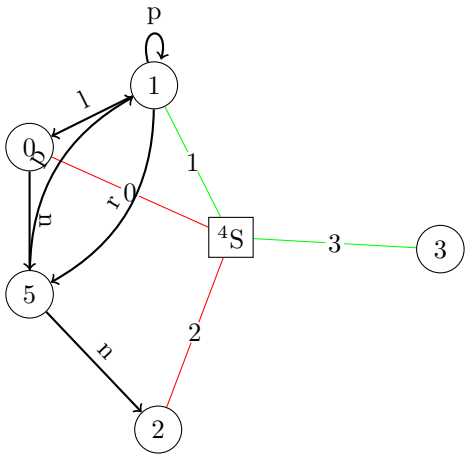


### 1.142 Critical Pair (Not Joinable)




2 2.3

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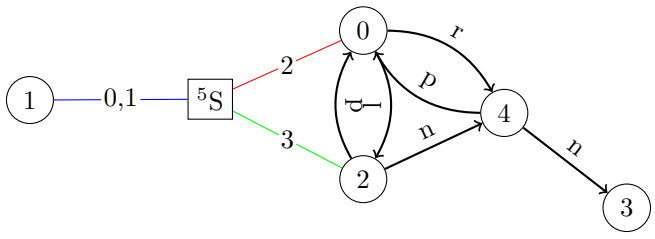


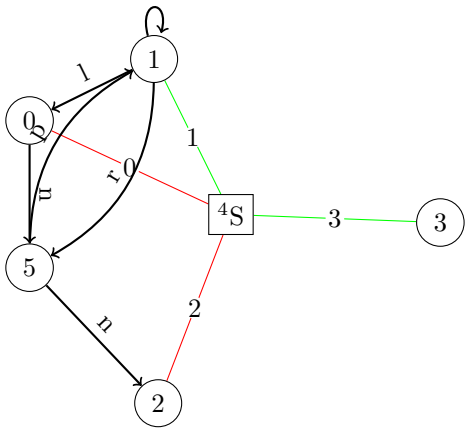


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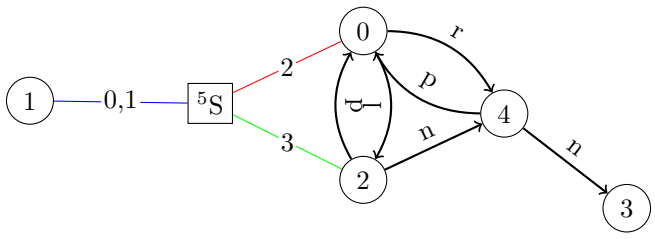
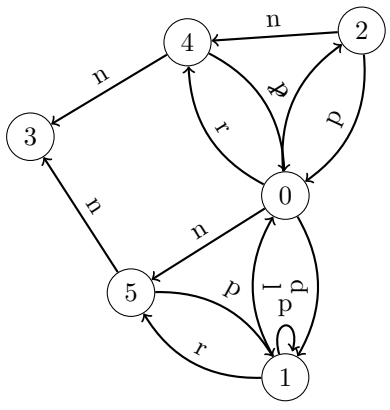
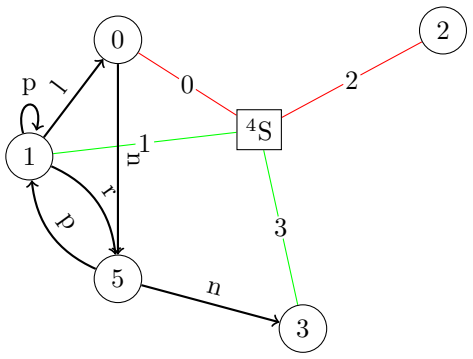
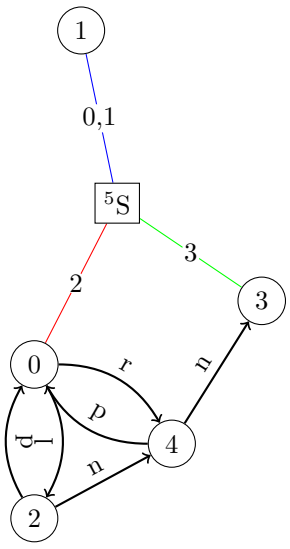


### 1.143 Critical Pair (Not Joinable)




2 2.3

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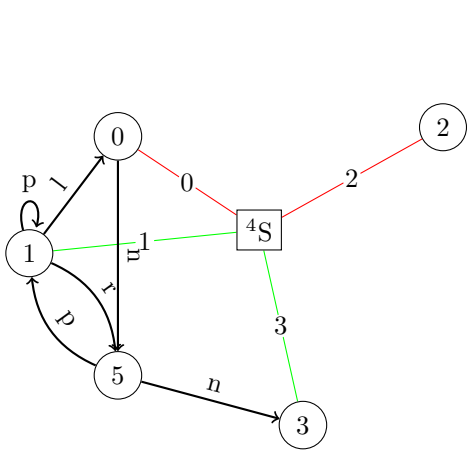


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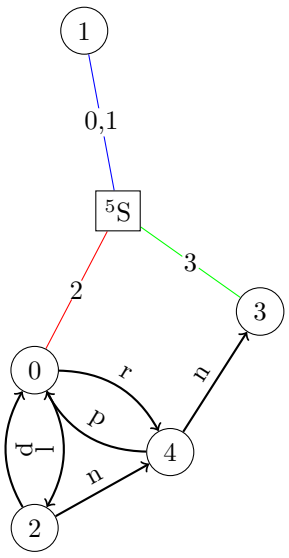
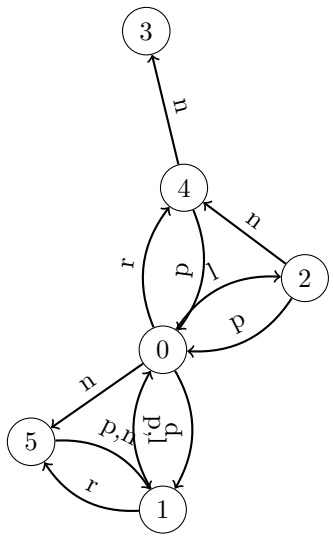
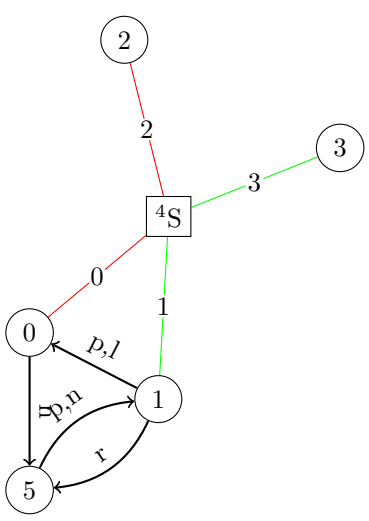
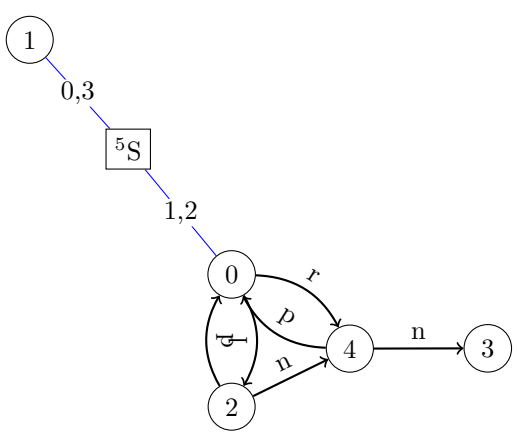


### 1.144 Critical Pair (Not Joinable)




2 2.4

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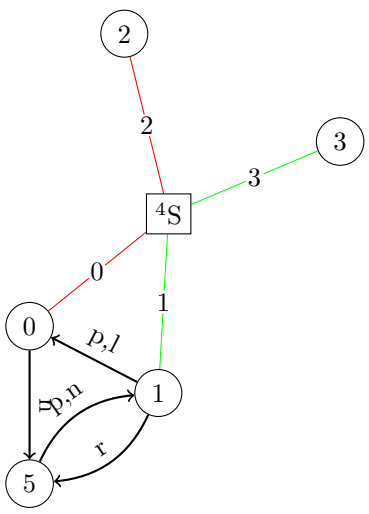


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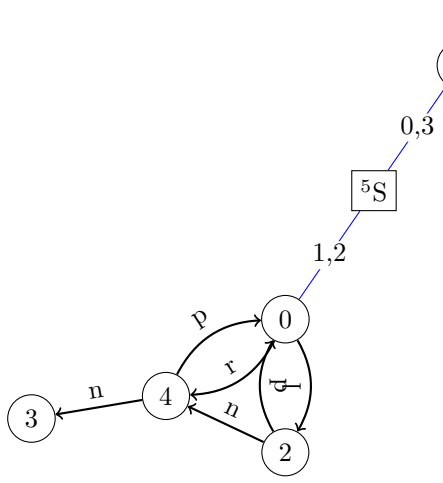
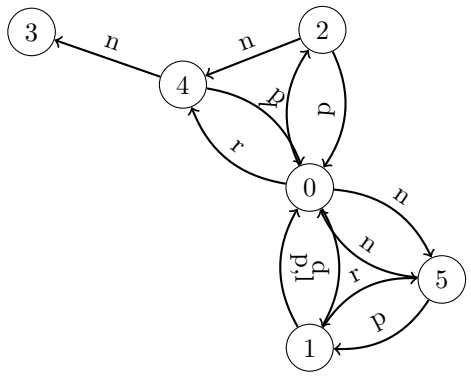
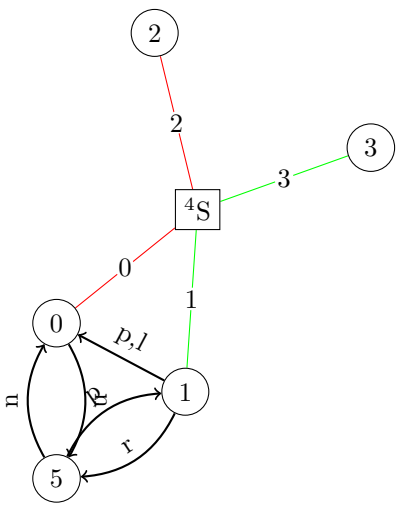
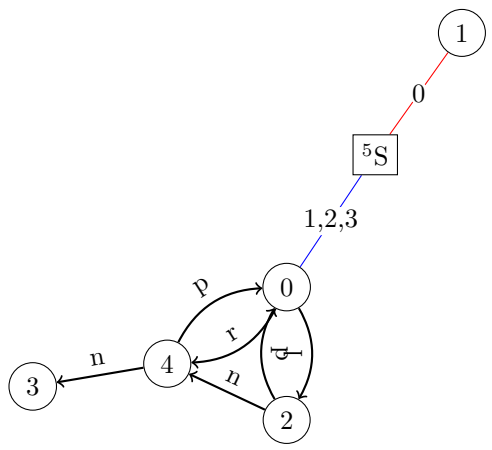


### 1.145 Critical Pair (Not Joinable)

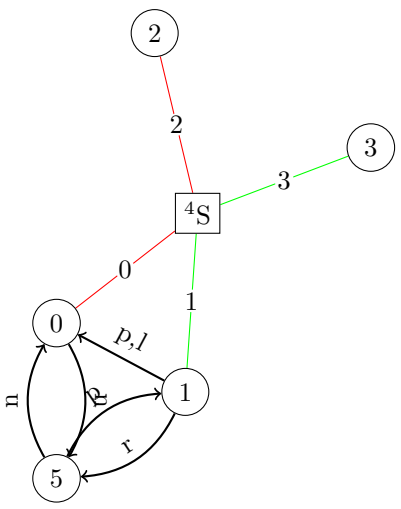



$\overset{2}{\Rightarrow}$ $\overset{2.5}{\Leftarrow}$




$\overset{*}{\Uparrow}$ $\Uparrow^{*}$

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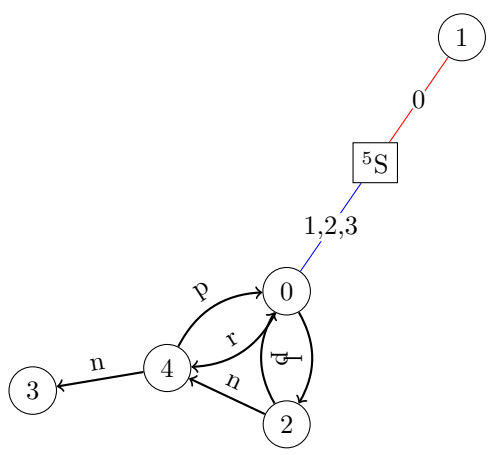
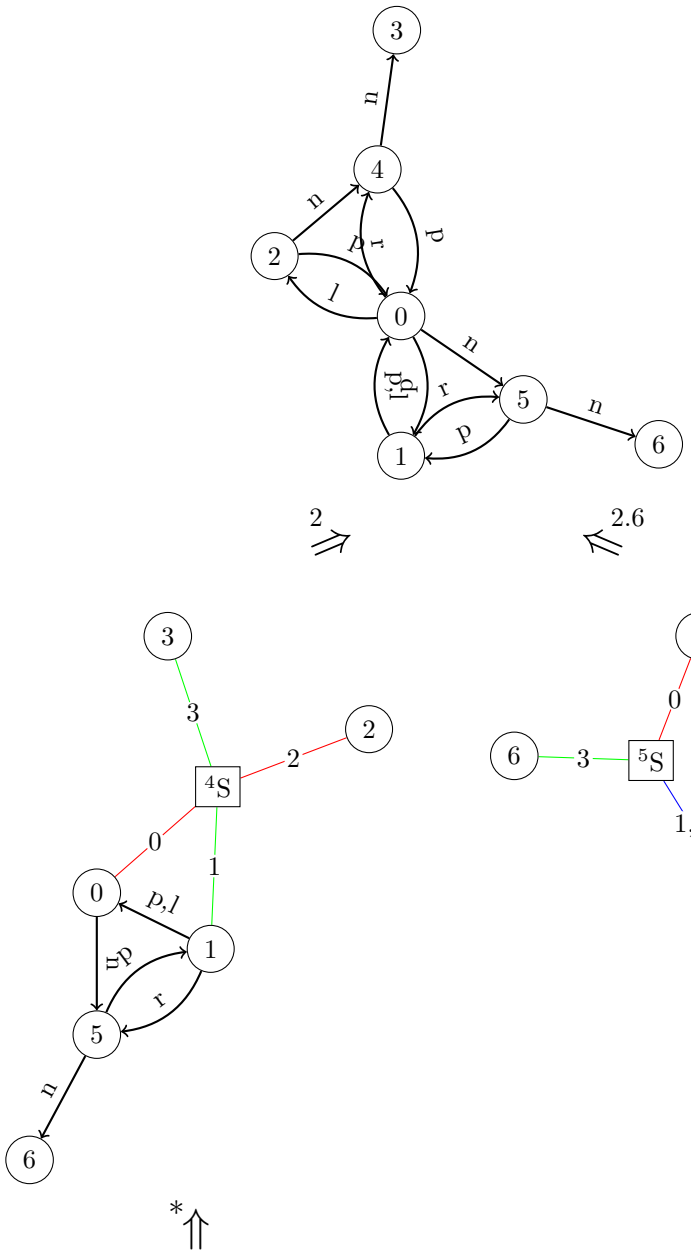
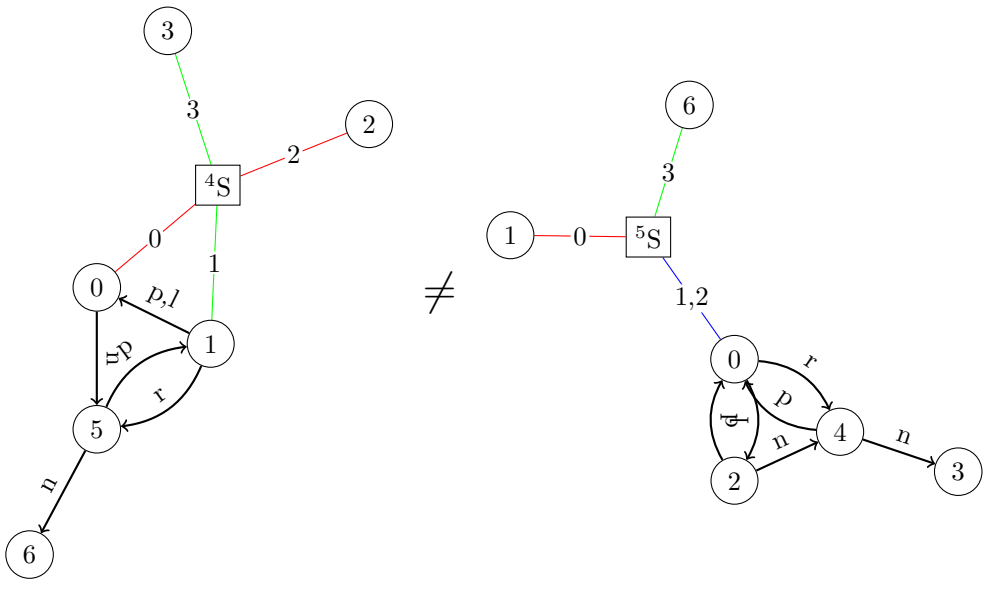
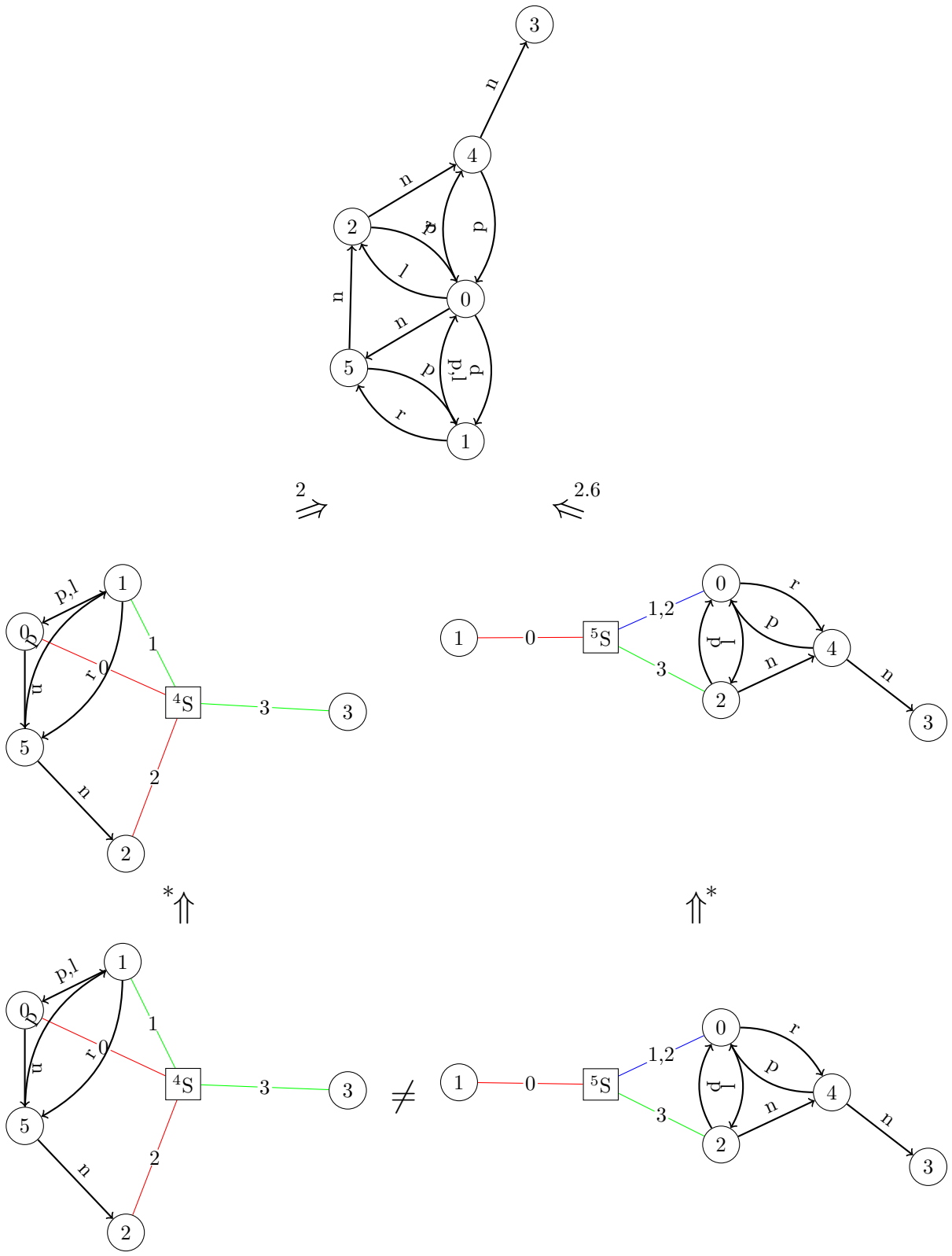


### 1.146 Critical Pair (Not Joinable)

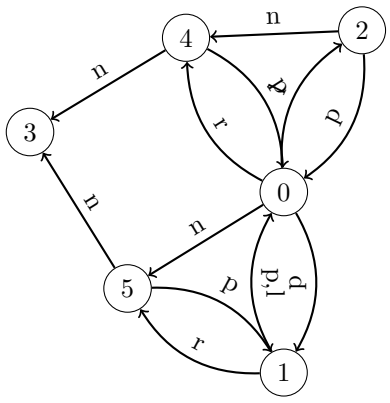


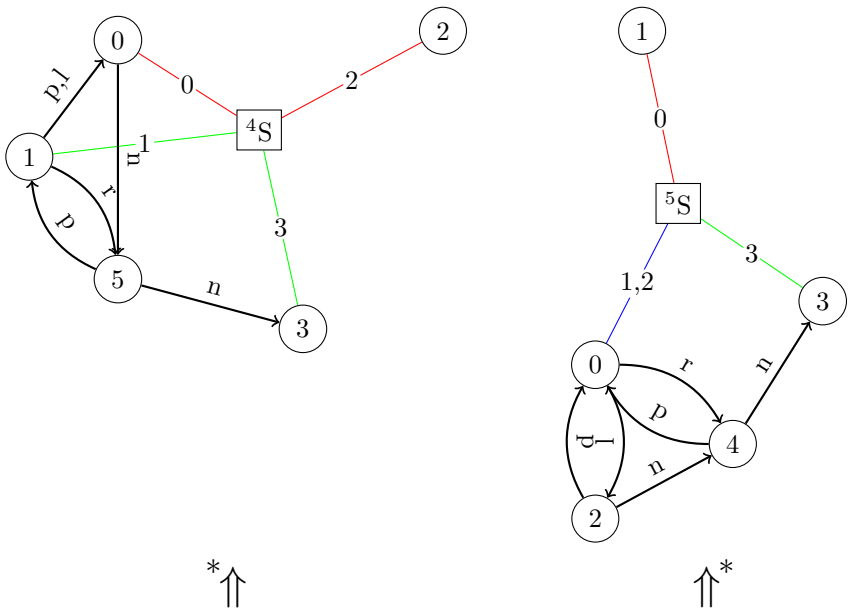
### 1.147 Critical Pair (Not Joinable)



## 1.148 Critical Pair (Not Joinable)




2 2.6

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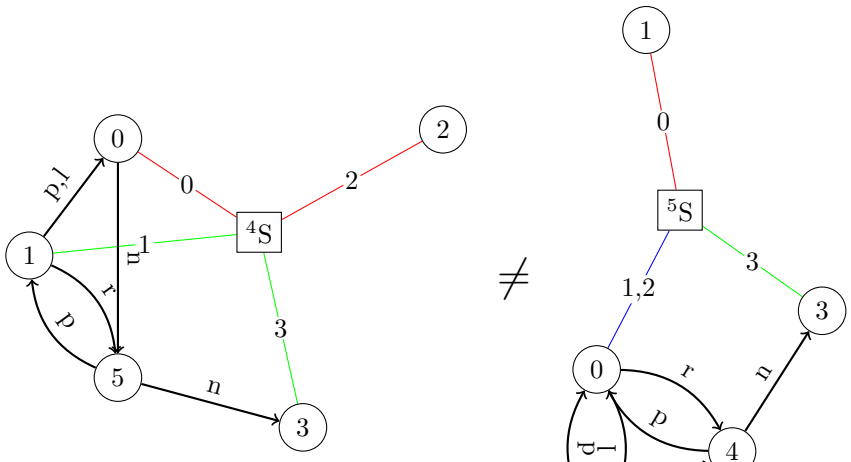


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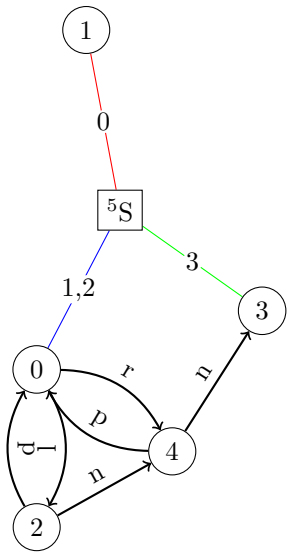
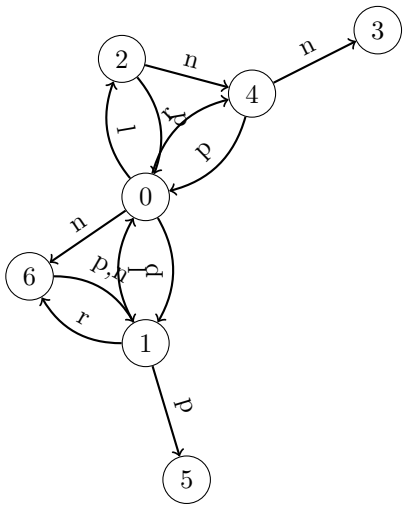
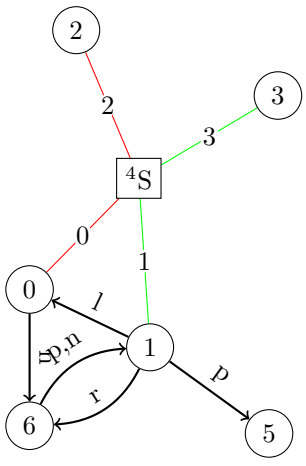
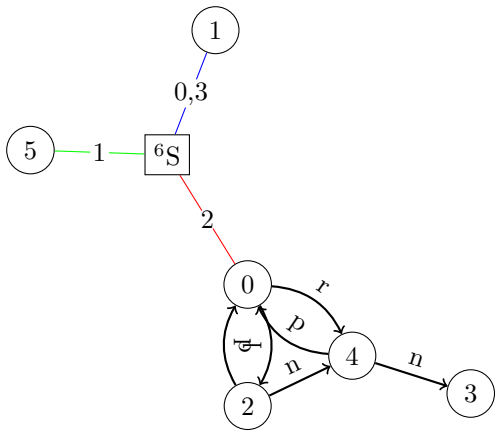


### 1.149 Critical Pair (Not Joinable)




2 ⇗ ⇖ 2.7

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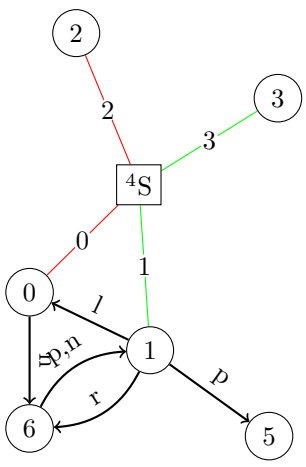


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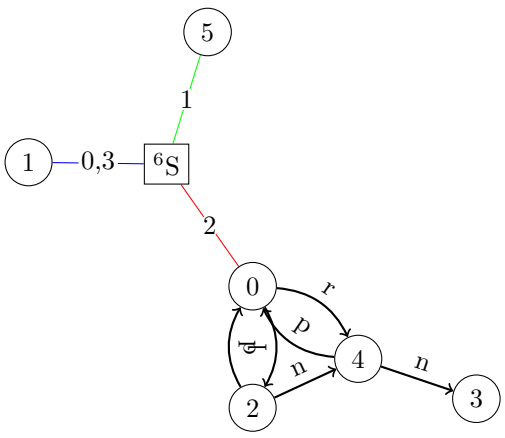
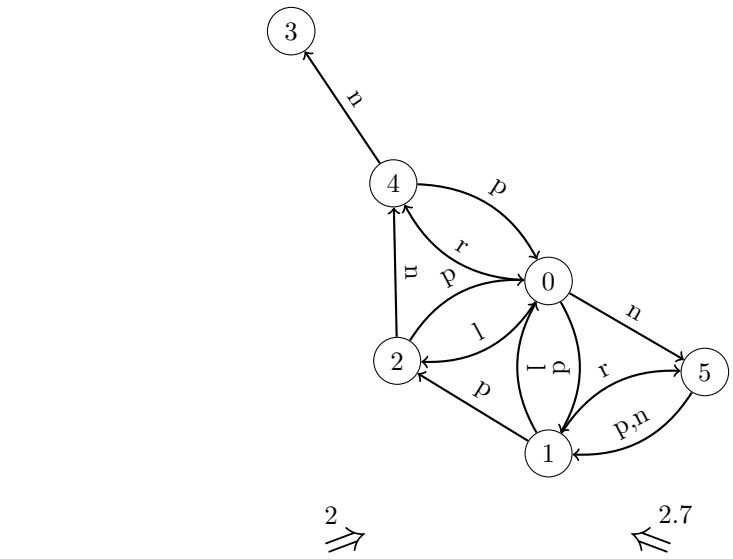
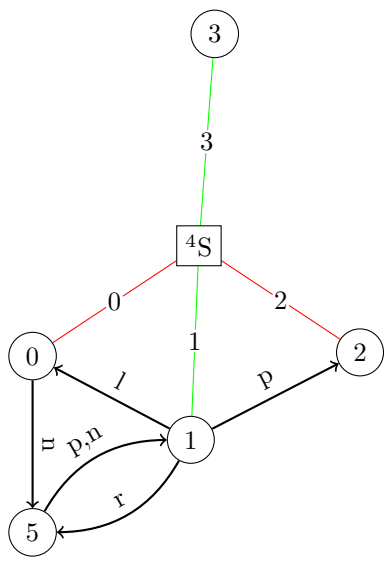
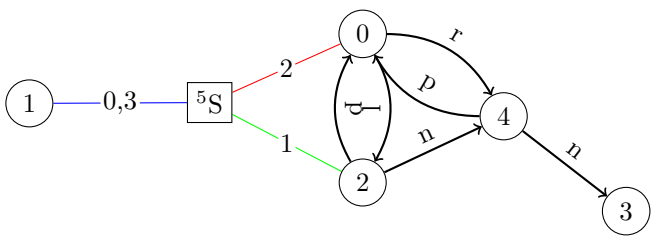


### 1.150 Critical Pair (Not Joinable)




2 ⇗ ⇖ 2.7

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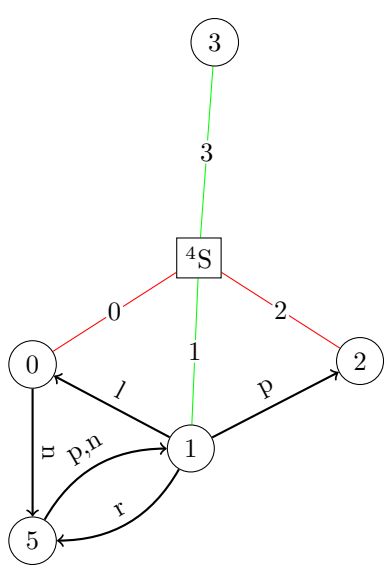


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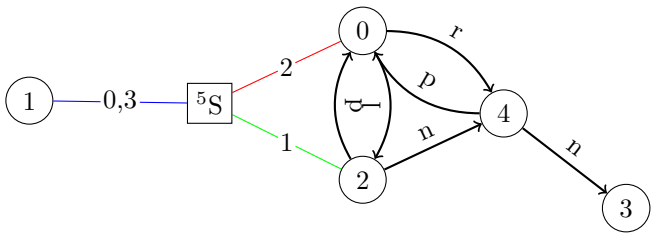
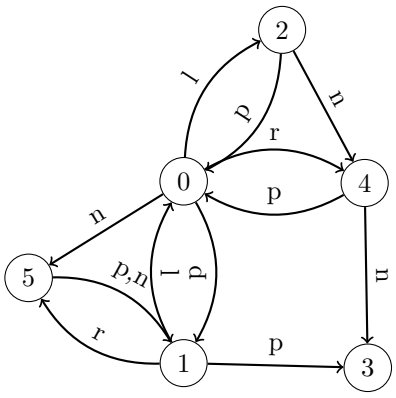
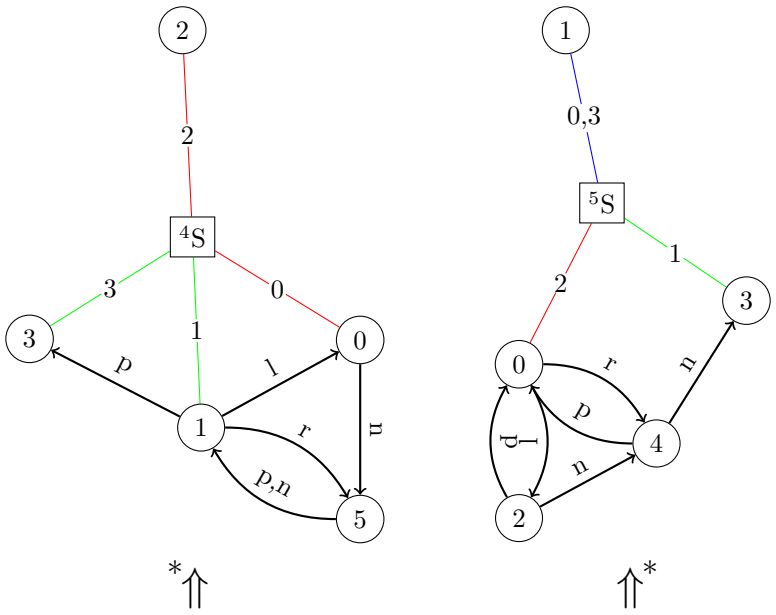


### 1.151 Critical Pair (Not Joinable)




2 2.7

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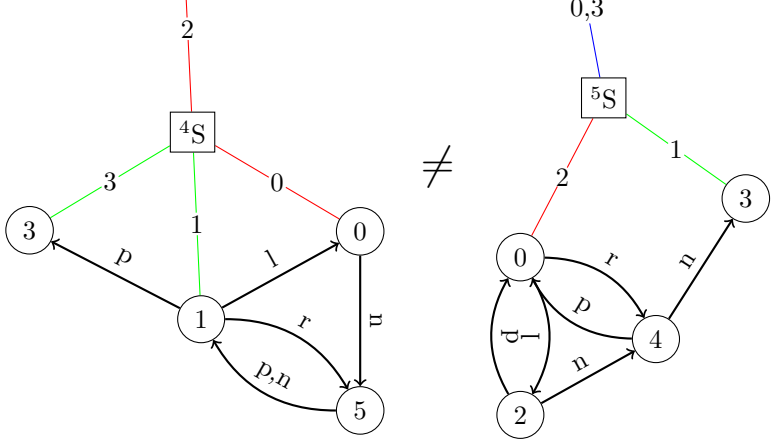


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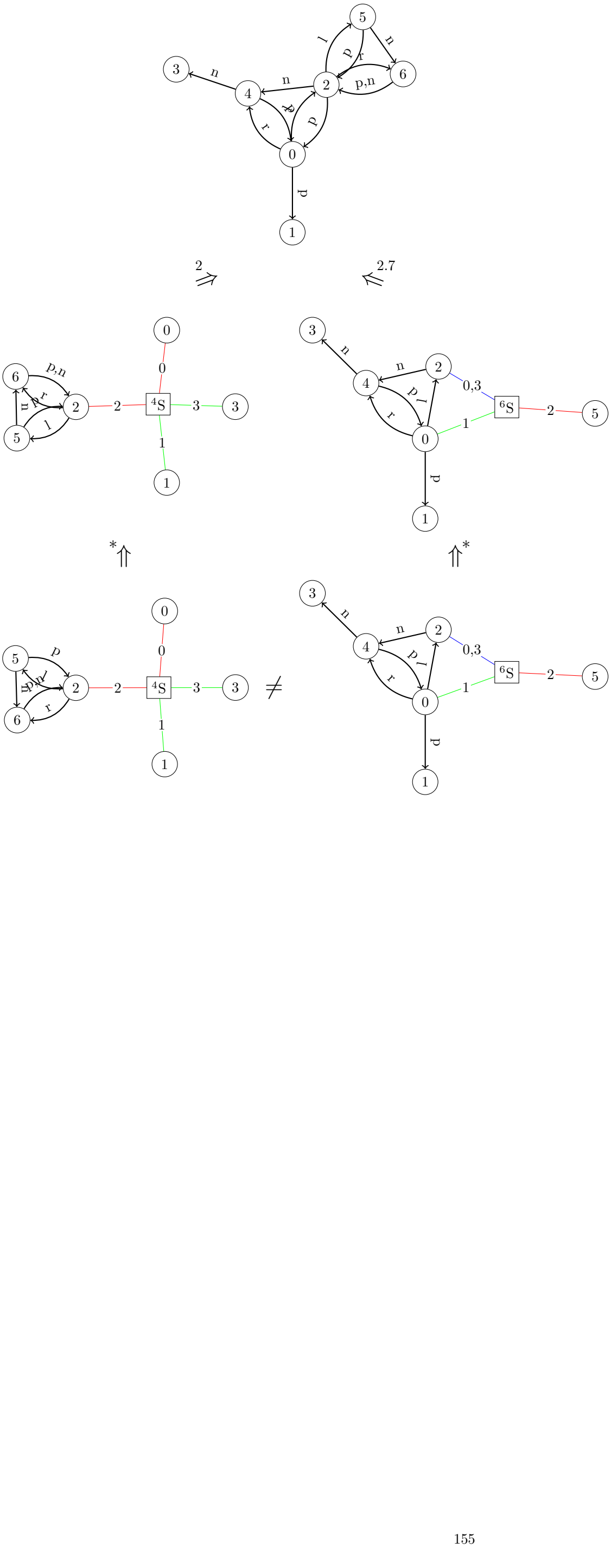
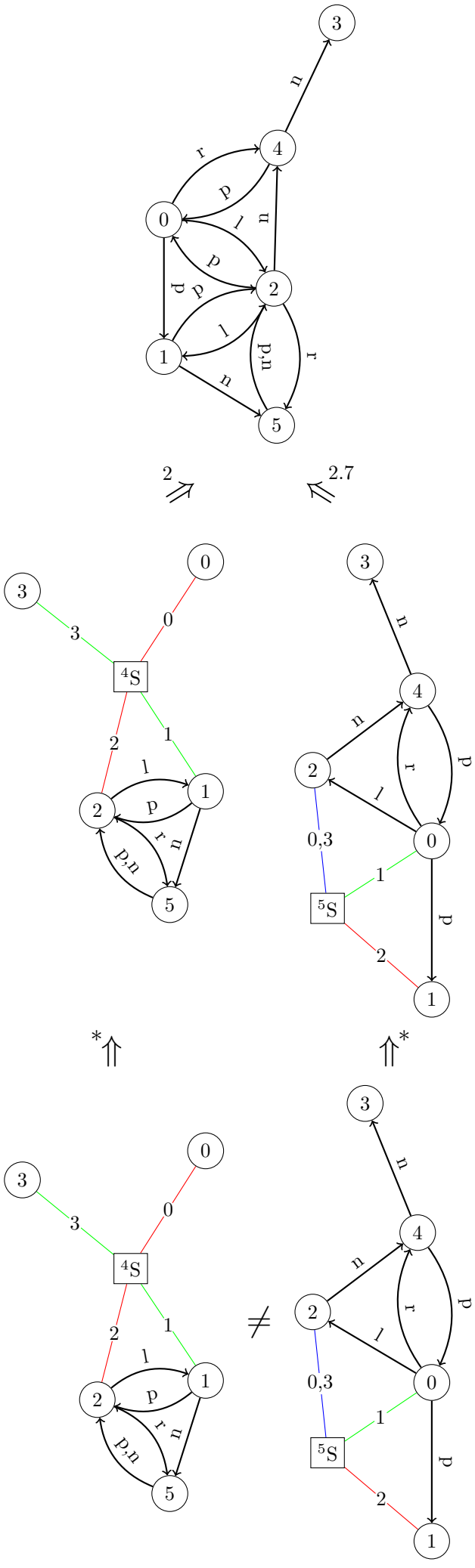
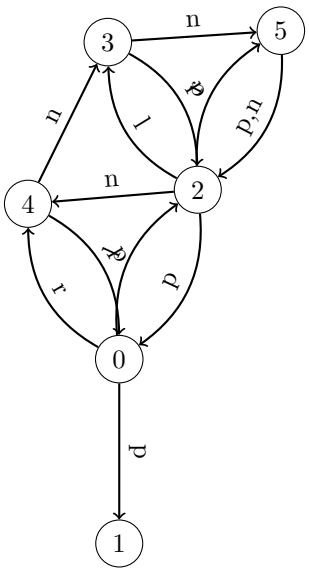
### 1.152 Critical Pair (Not Joinable)



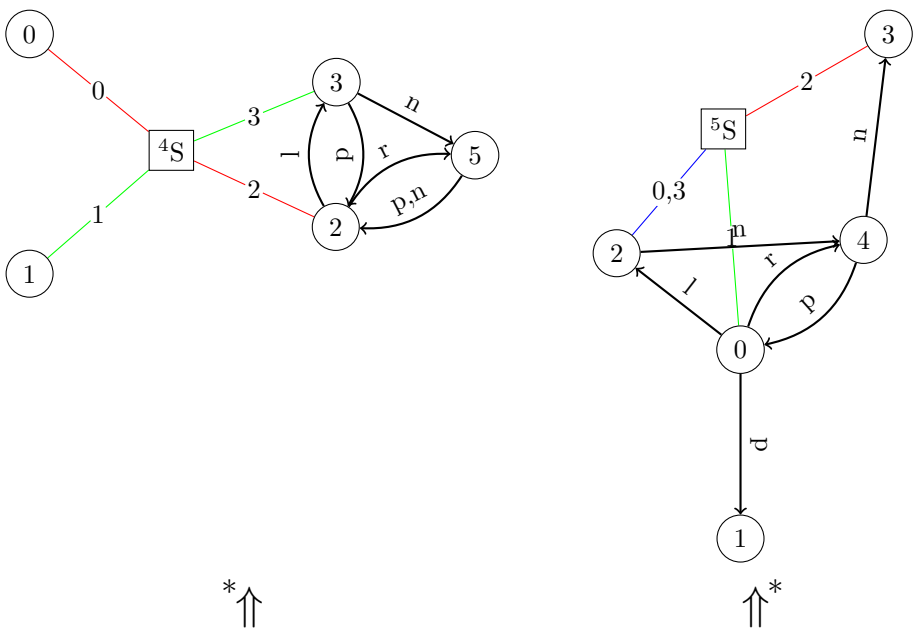
### 1.153 Critical Pair (Not Joinable)

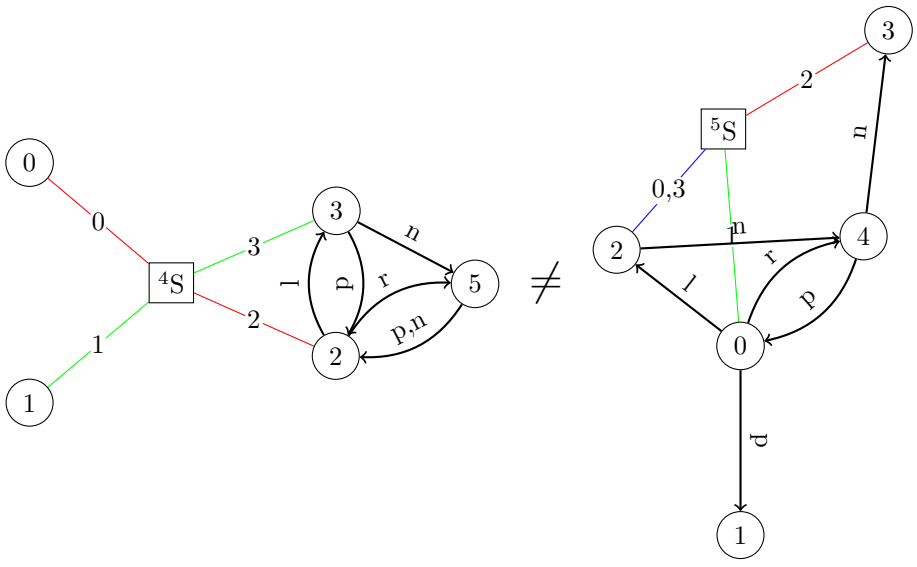


### 1.154 Critical Pair (Not Joinable)

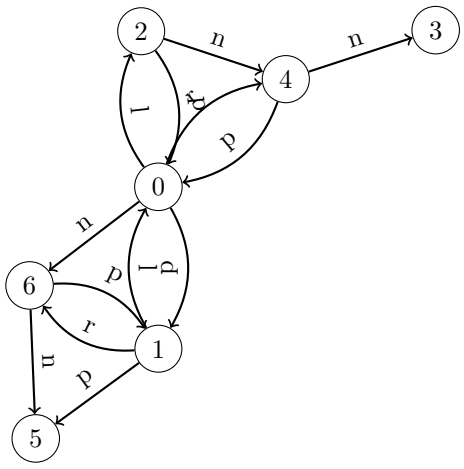



2 2.7

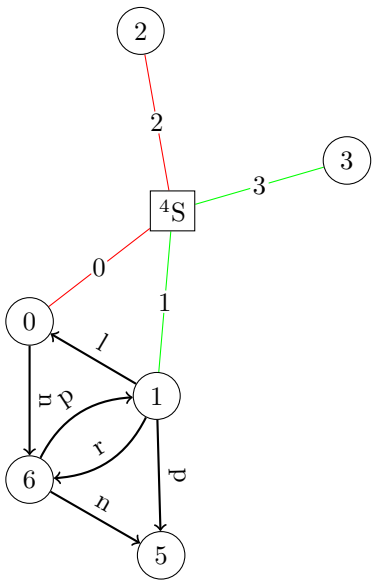


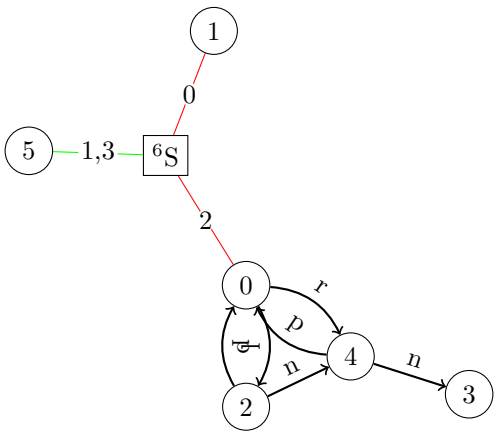



### 1.155 Critical Pair (Not Joinable)




2 ⇛ 2.8 ⇚

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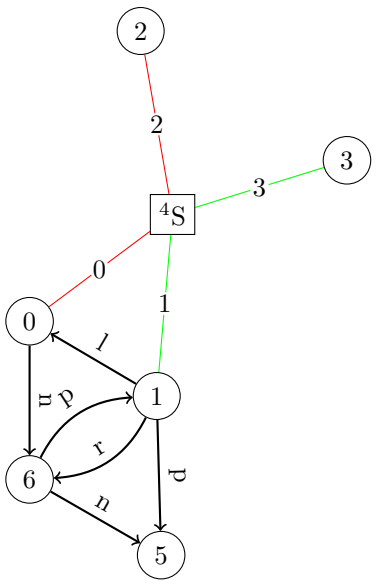


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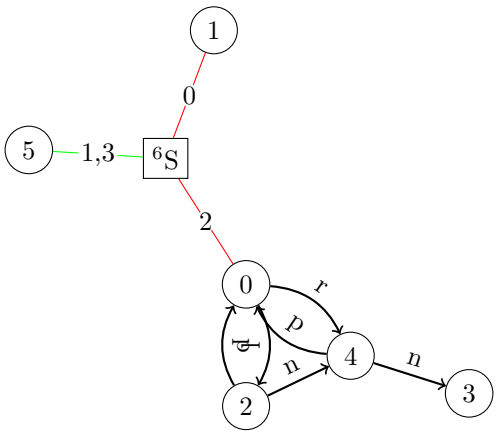
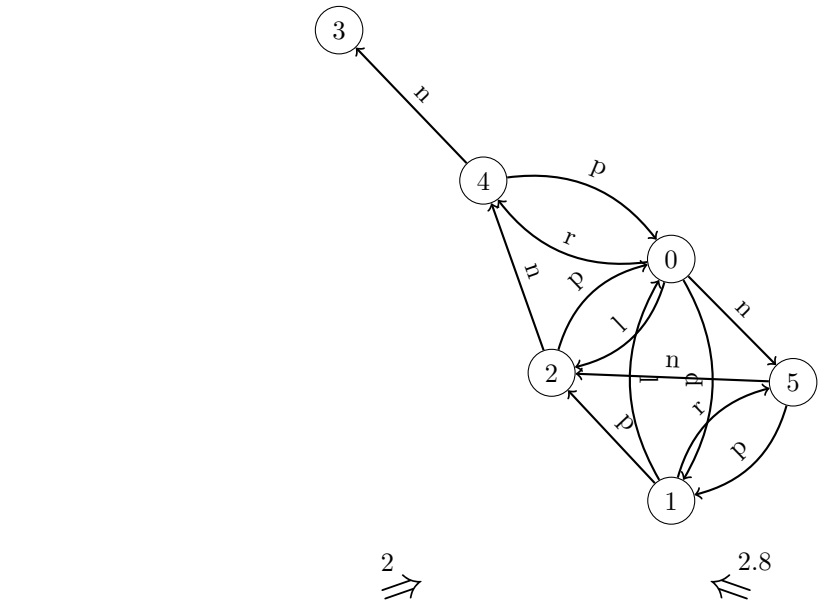
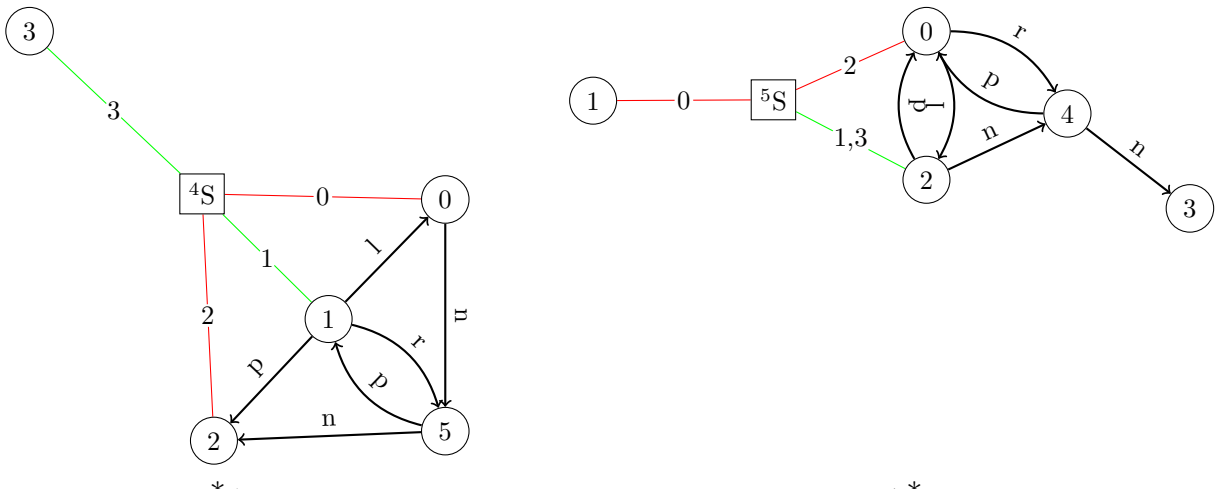


## 1.156 Critical Pair (Not Joinable)




2 2.8

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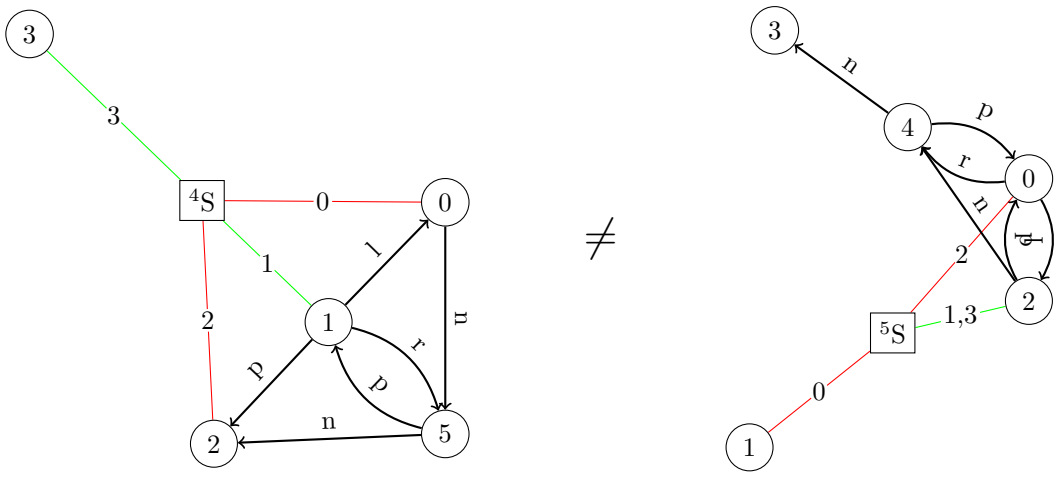
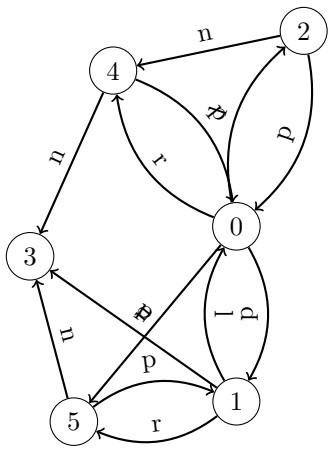


### 1.157 Critical Pair (Not Joinable)

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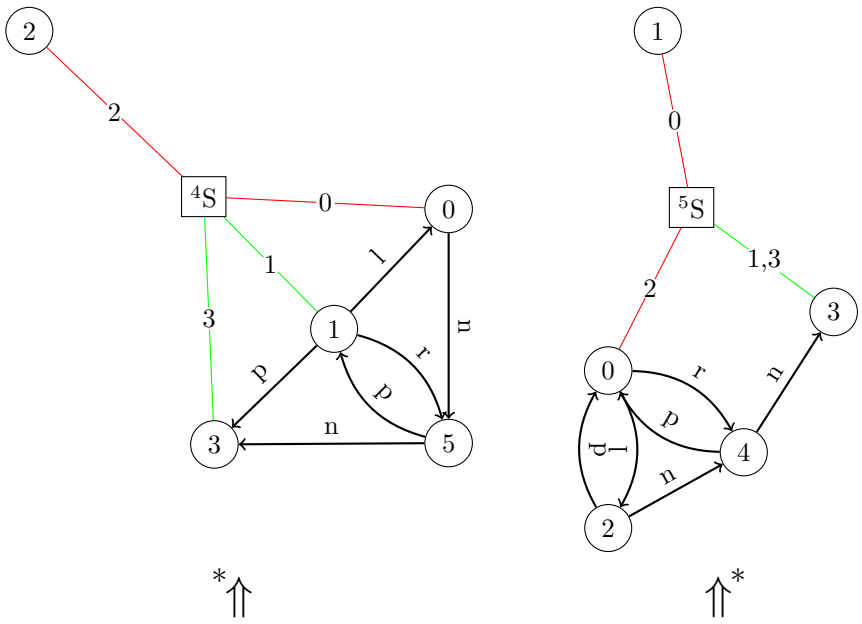


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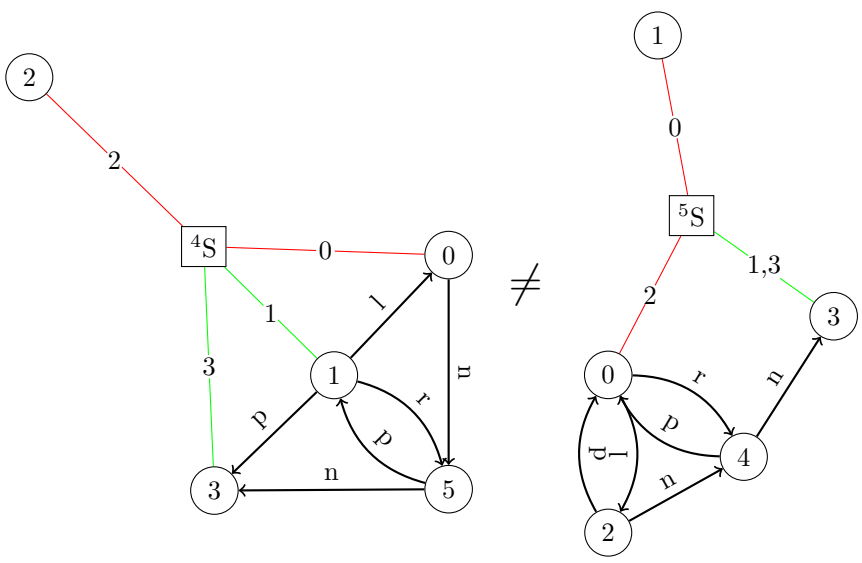

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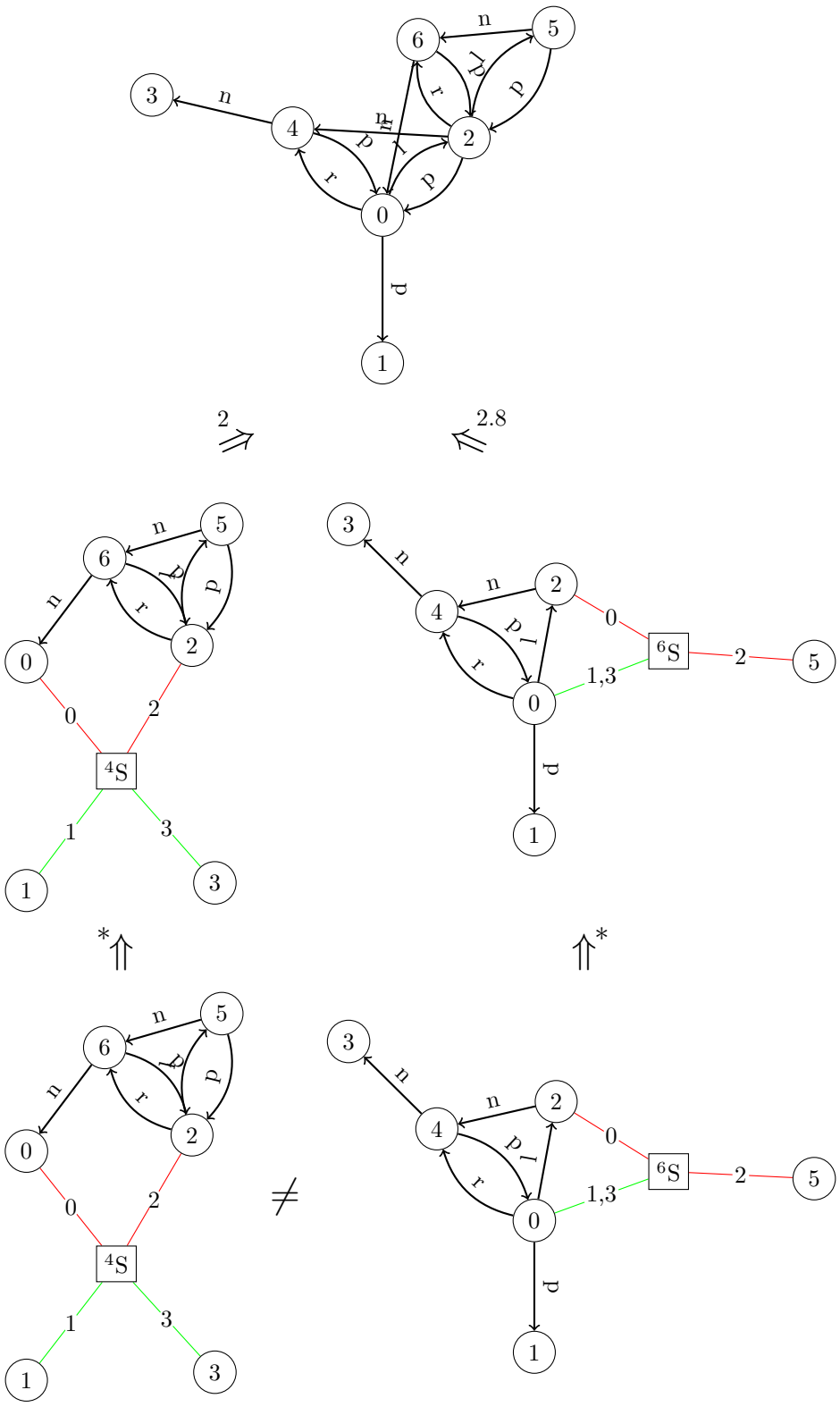

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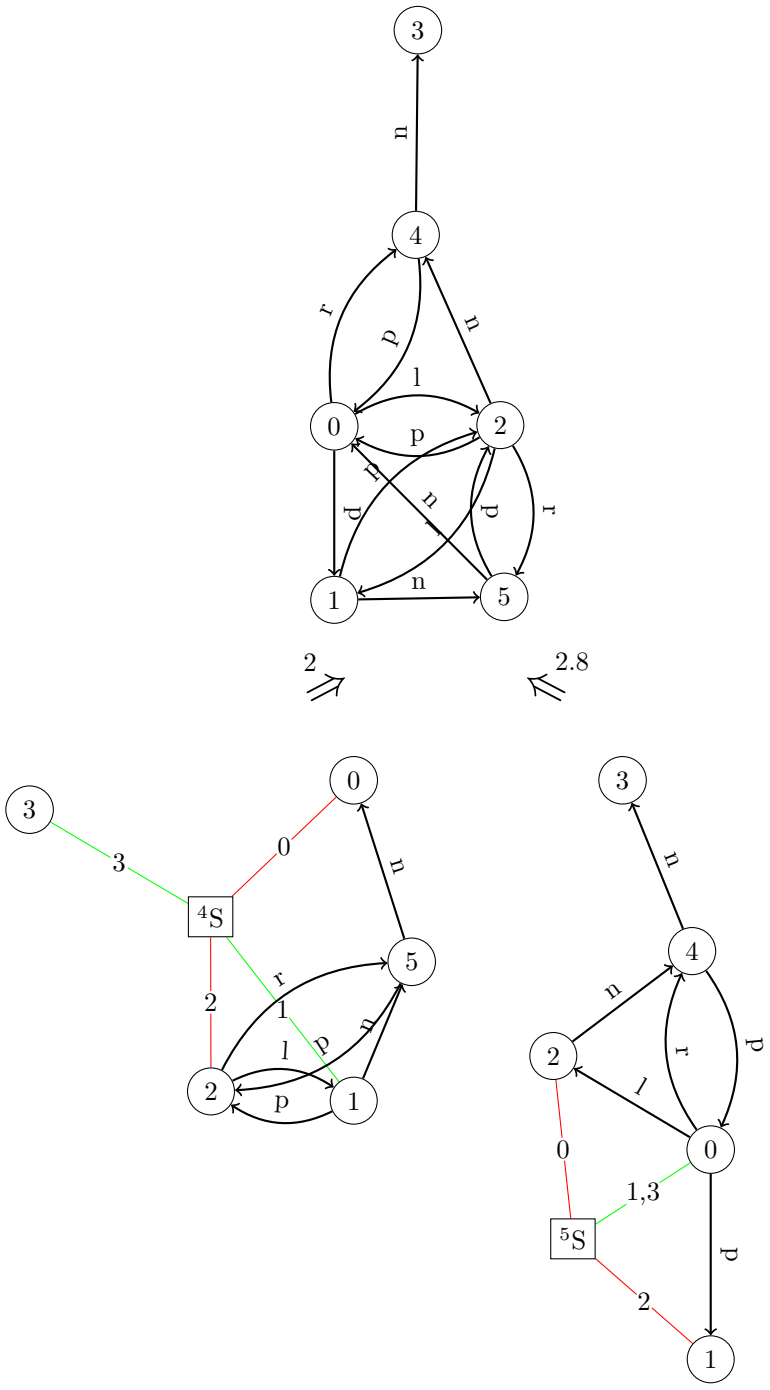
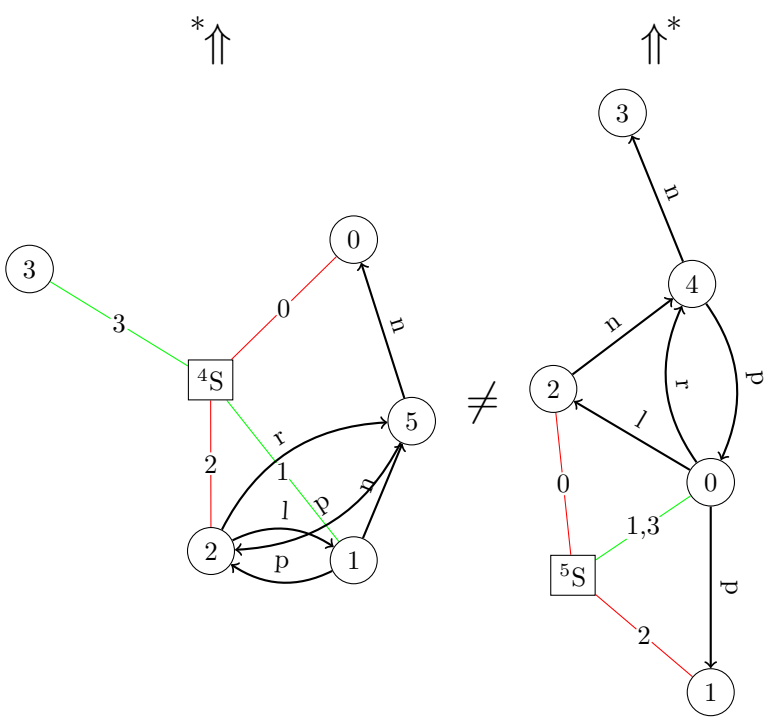
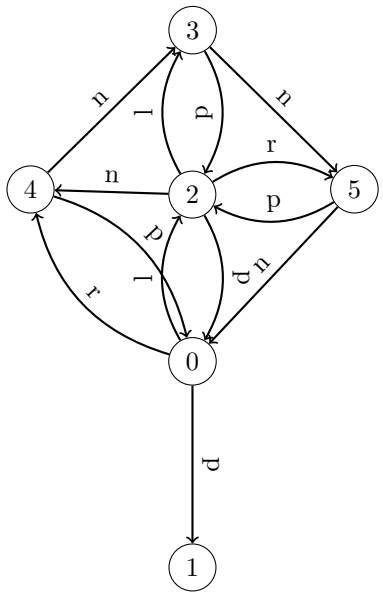
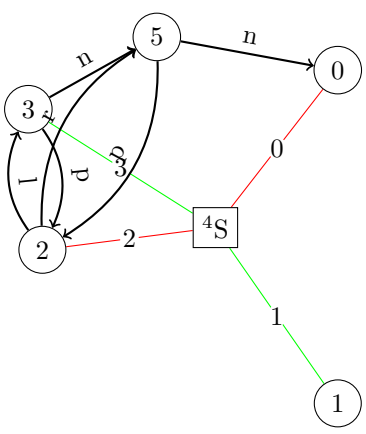


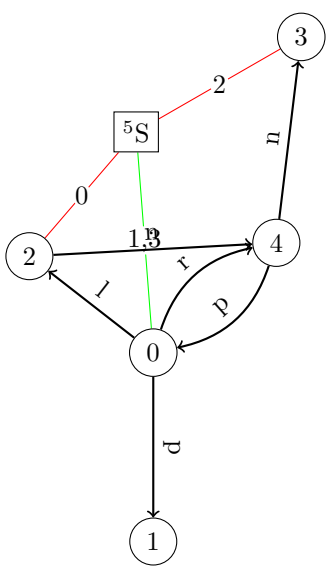



### 1.160 Critical Pair (Not Joinable)




2 2.8

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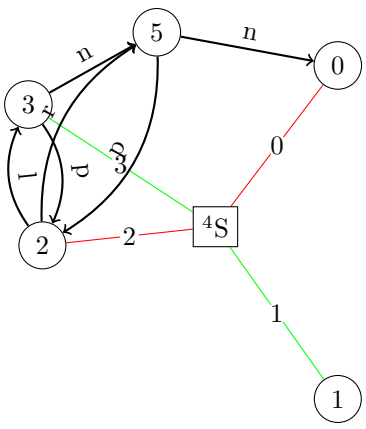


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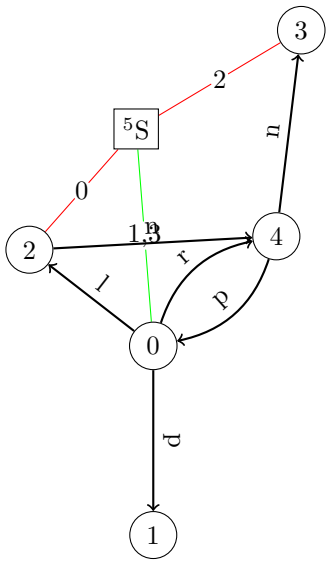
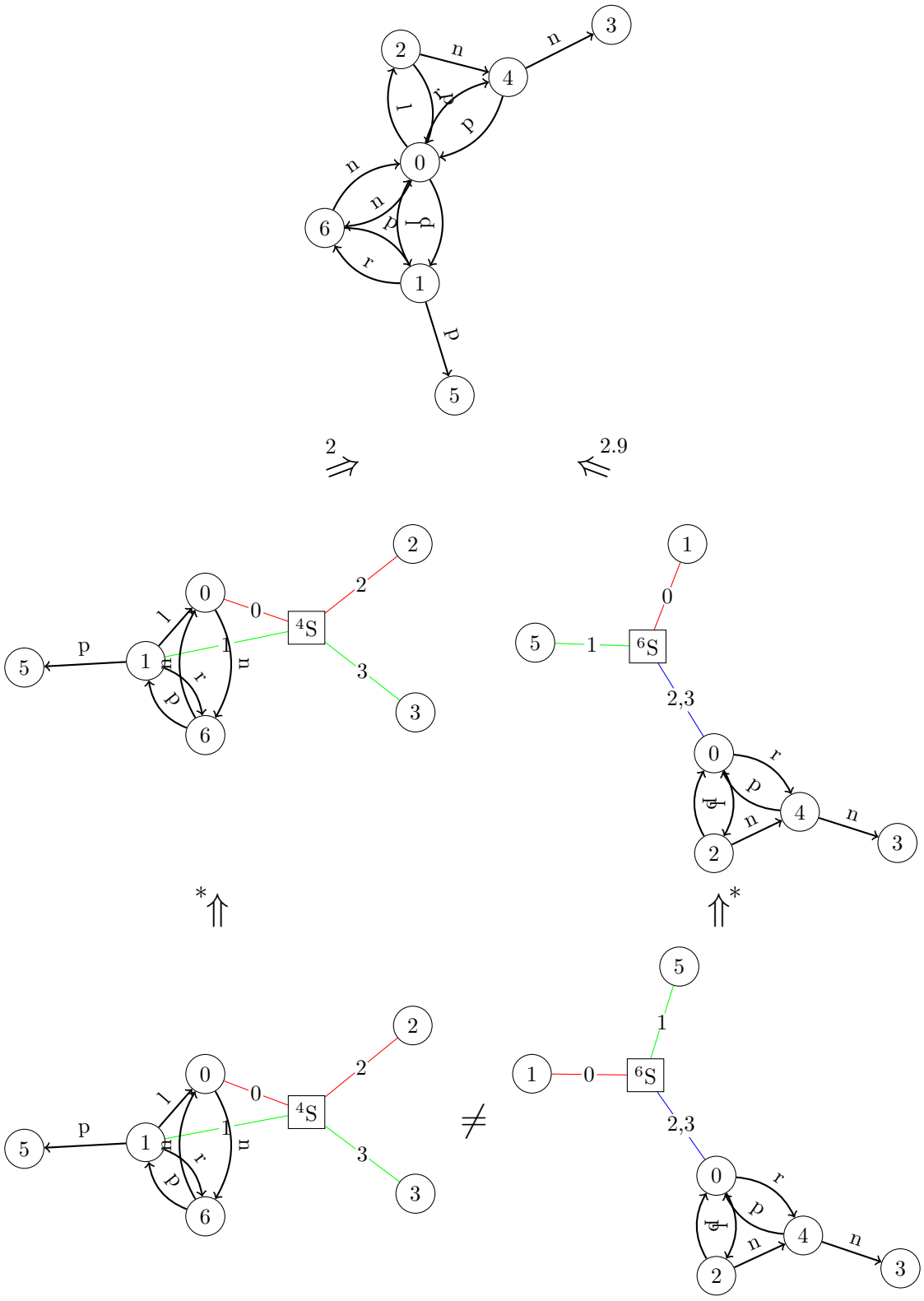


### 1.161 Critical Pair (Not Joinable)



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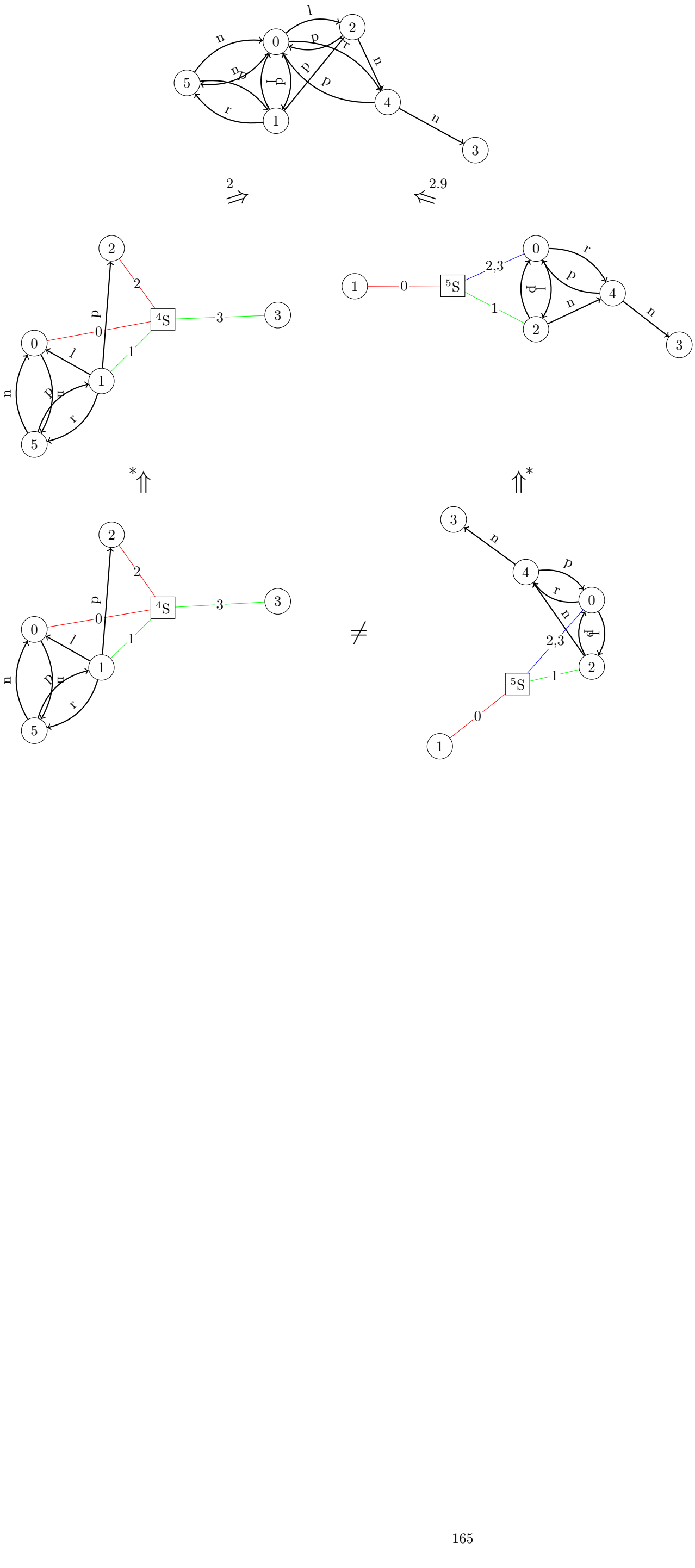
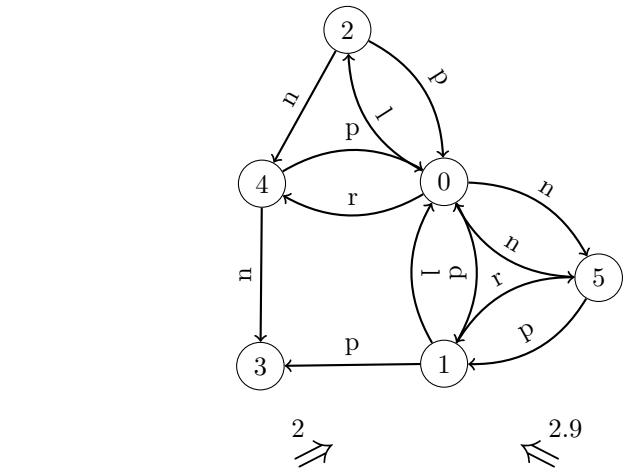


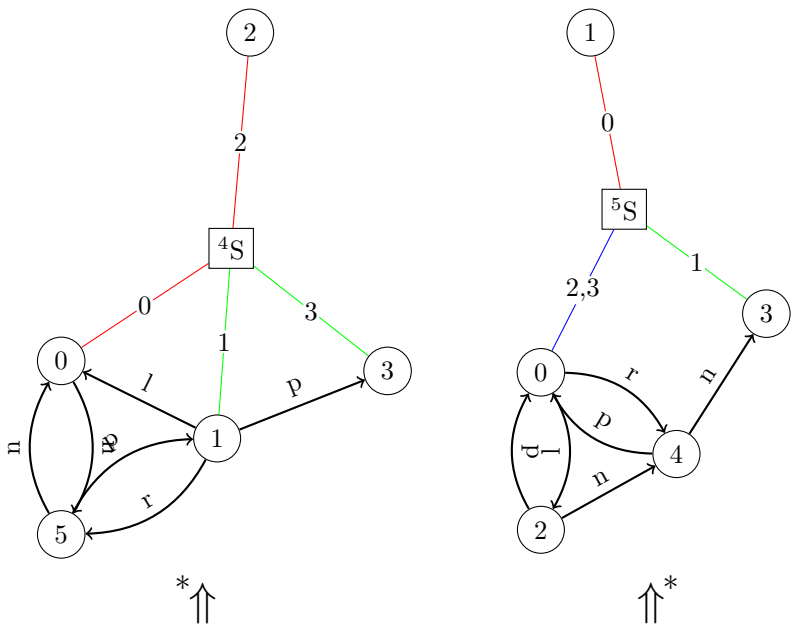
### 1.163 Critical Pair (Not Joinable)

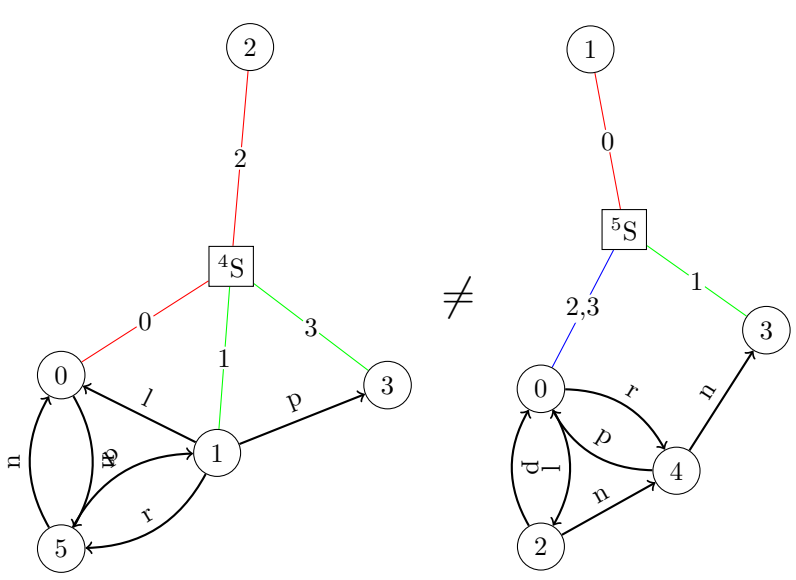




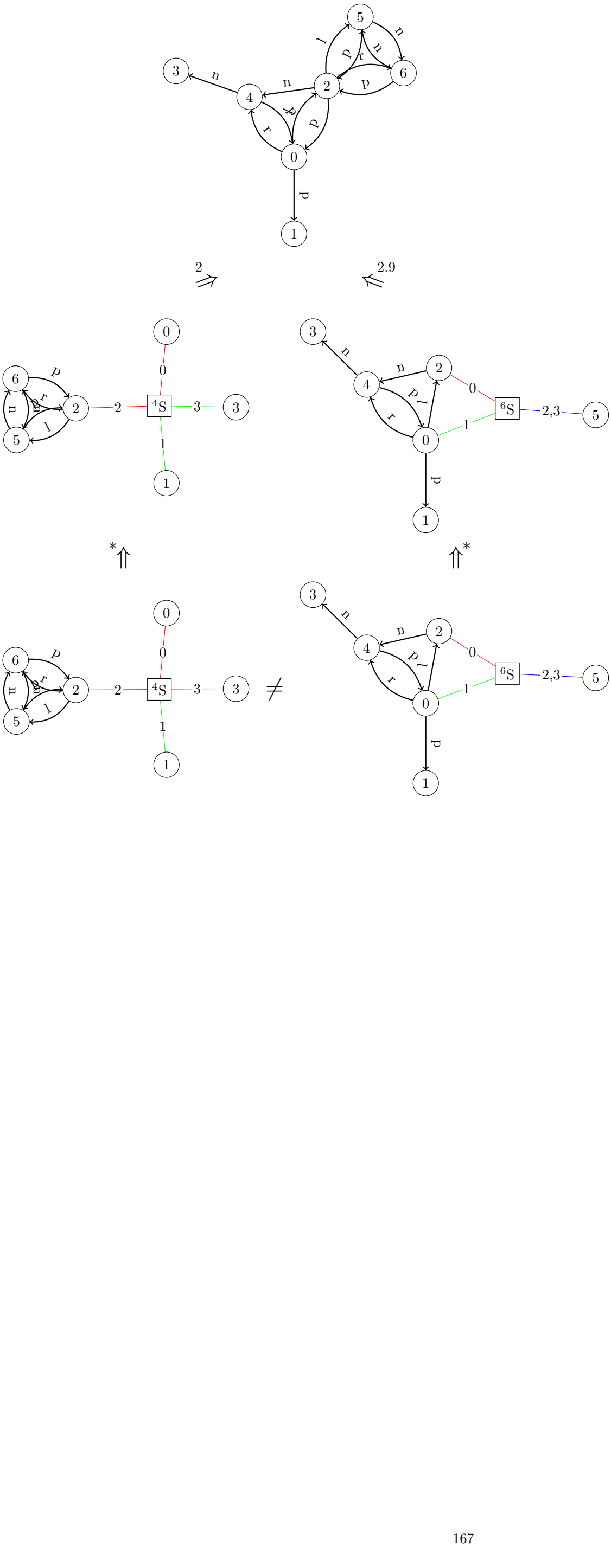




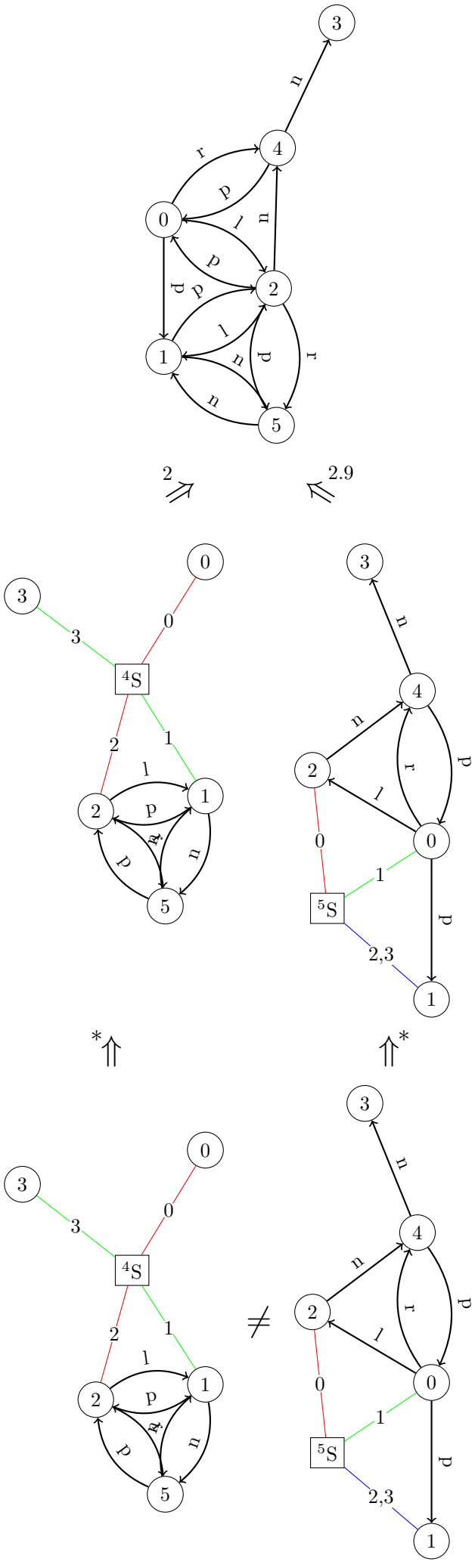



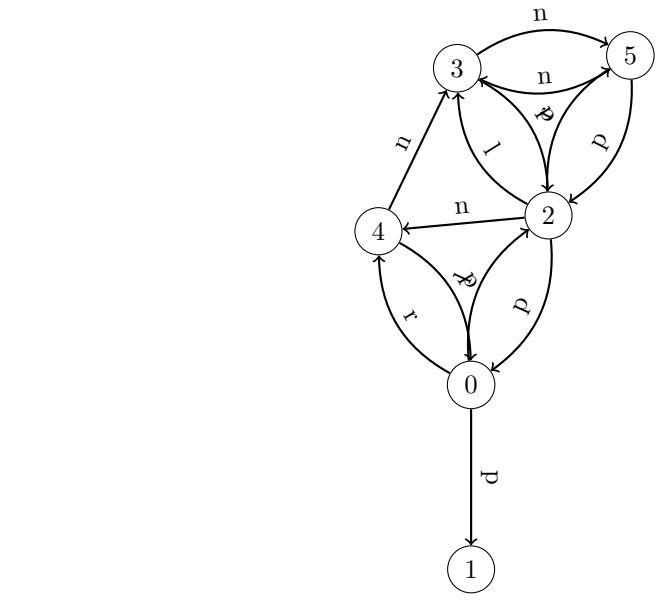
### 1.164 Critical Pair (Not Joinable)



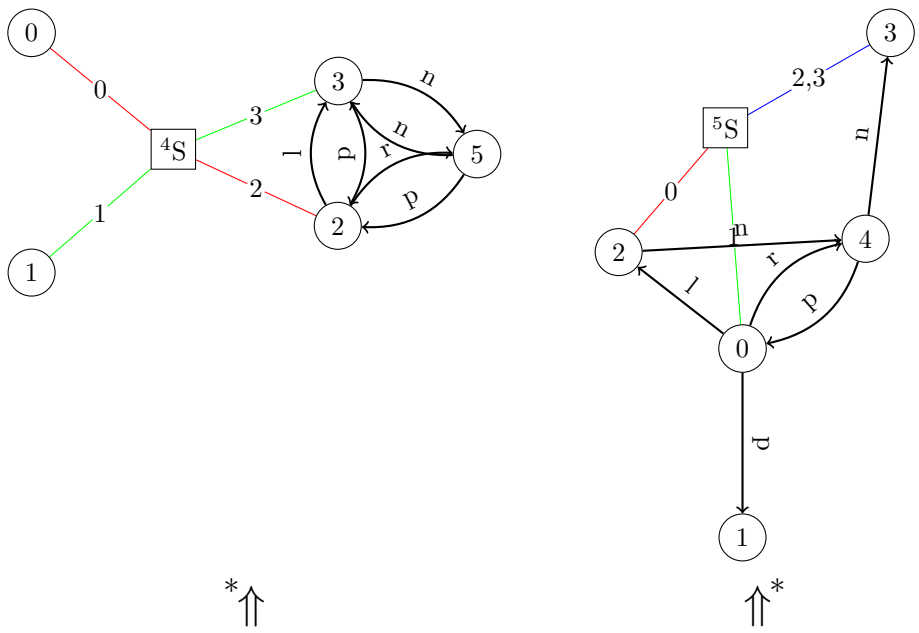
### 1.165 Critical Pair (Not Joinable)

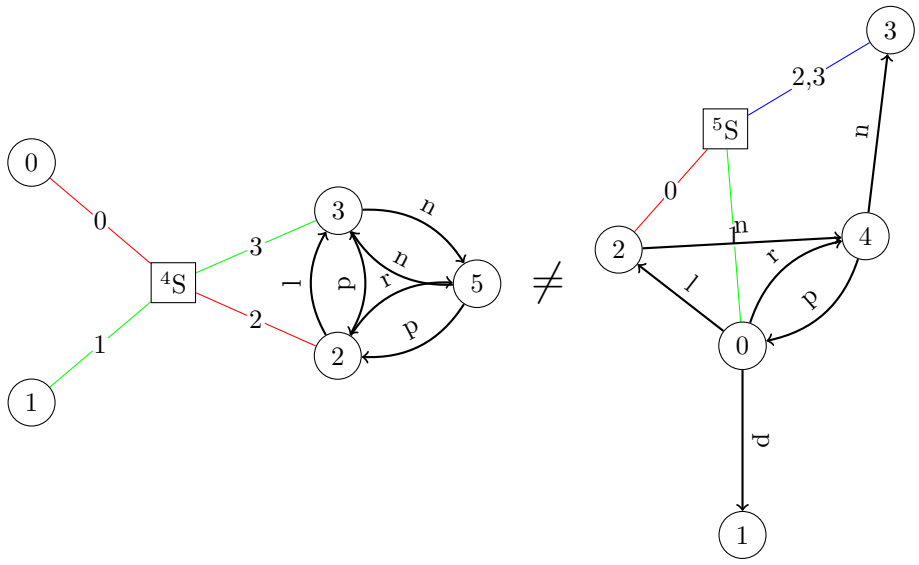


### 1.166 Critical Pair (Not Joinable)

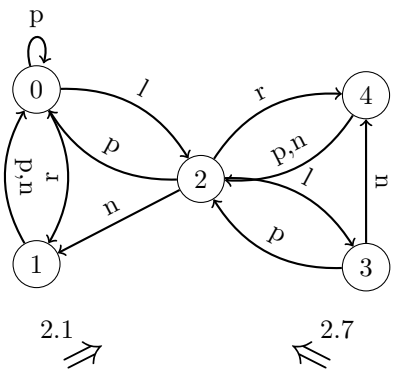



2 2.9

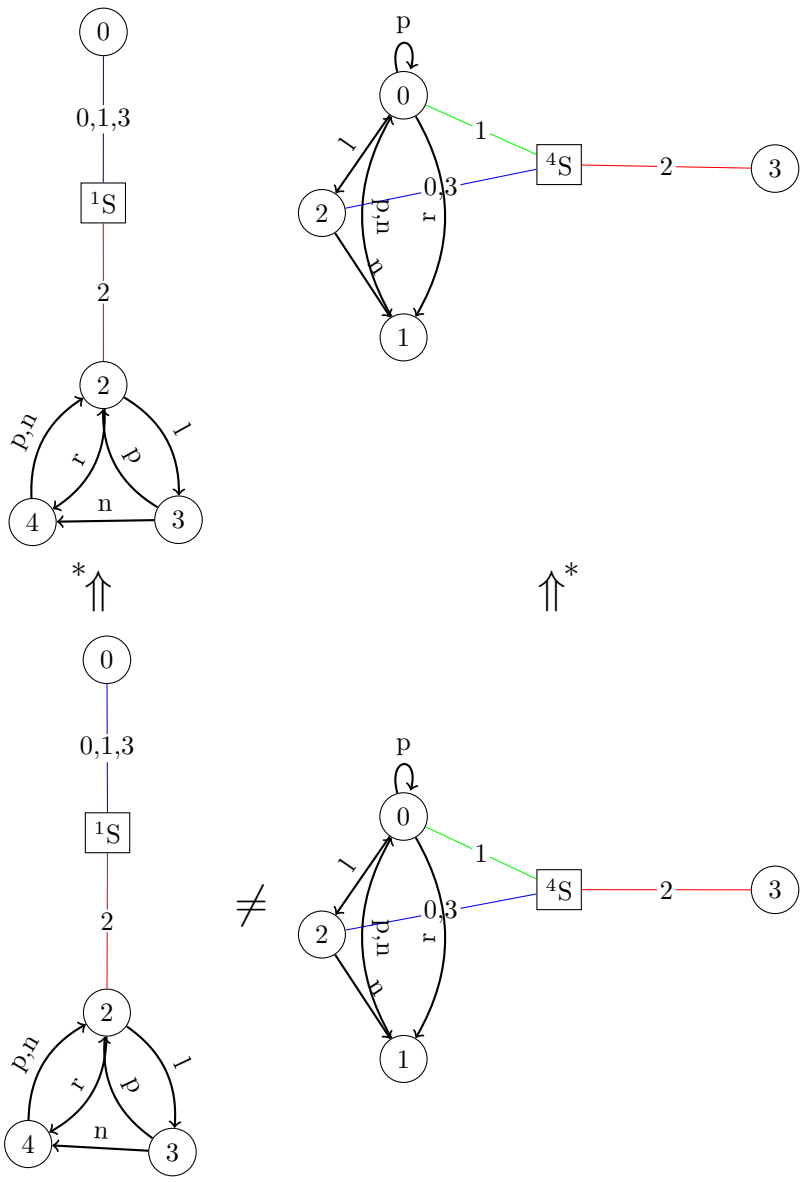


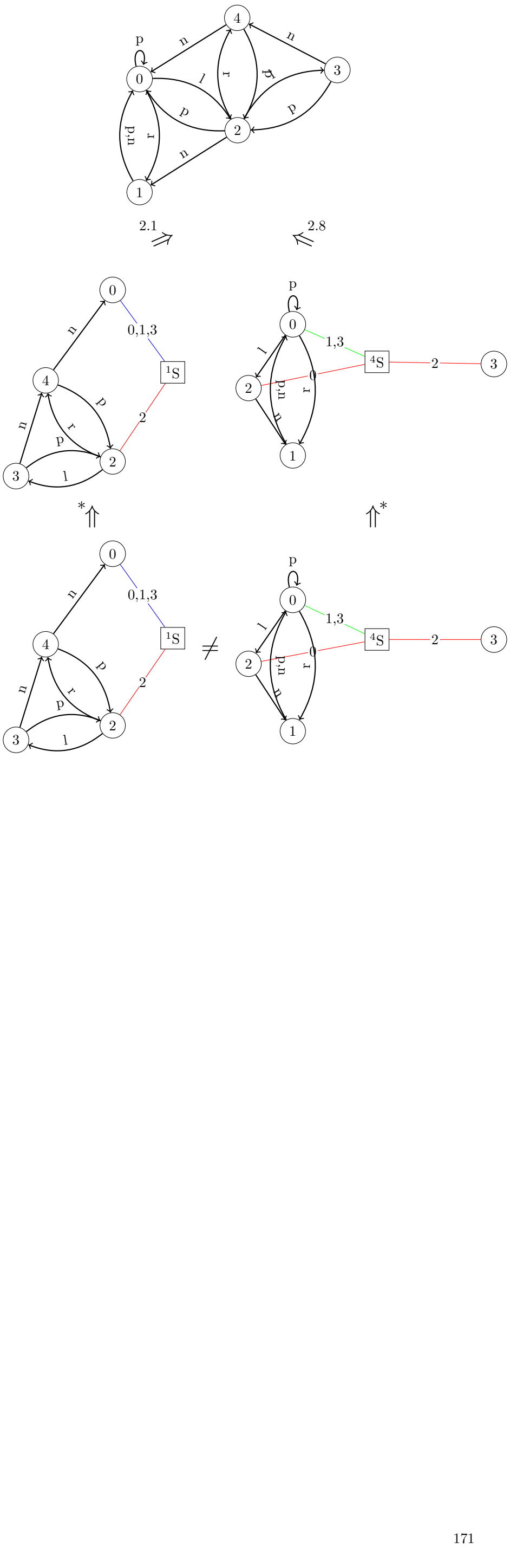
### 1.167 Critical Pair (Not Joinable)



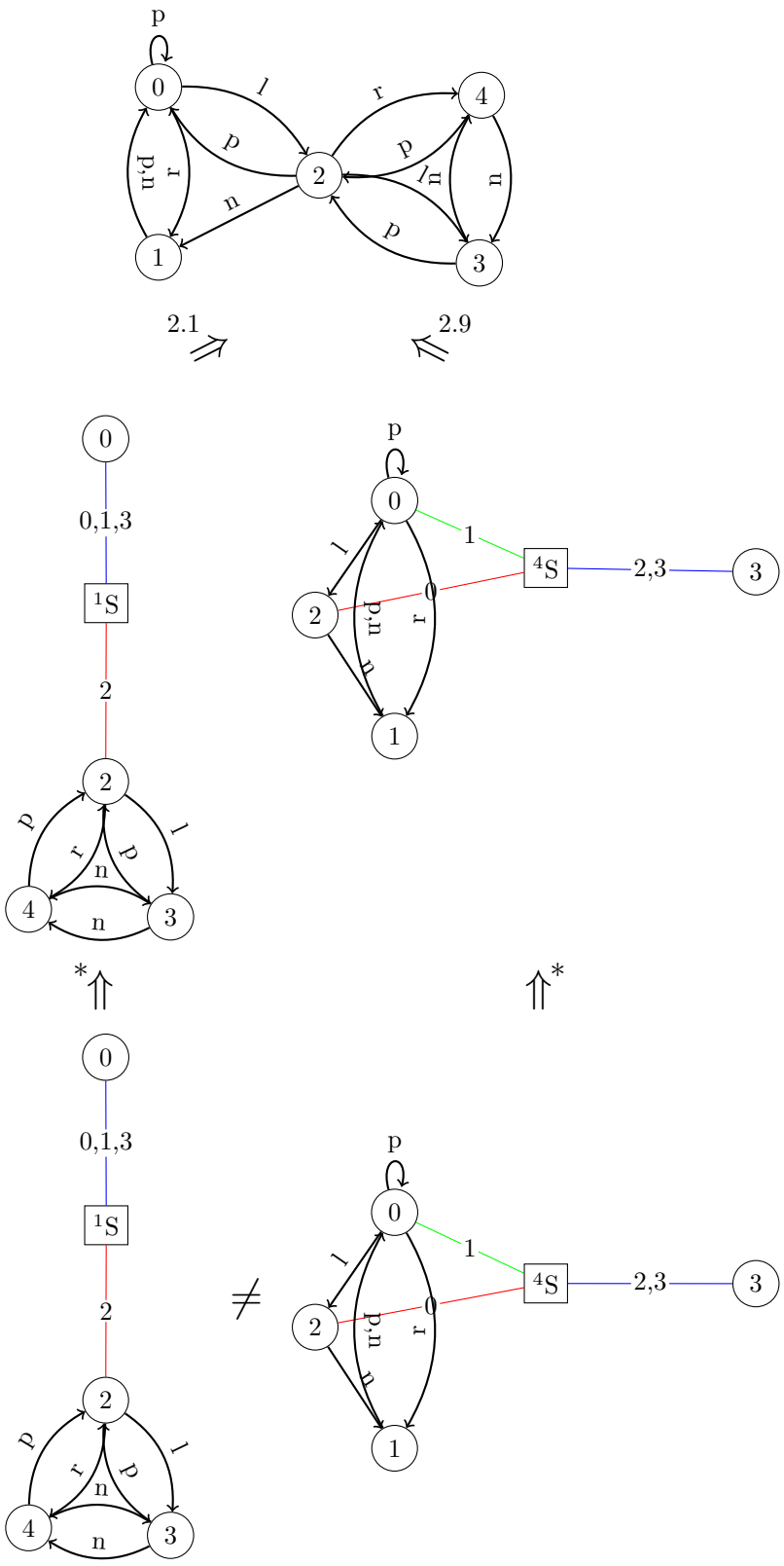

2.1 ⇉ 2.7



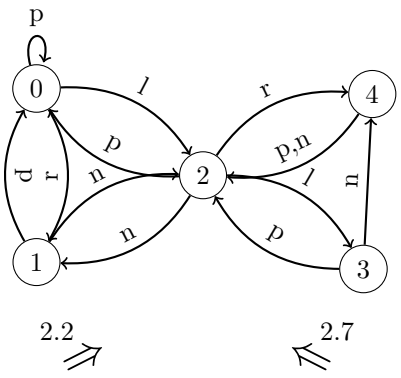
## 1.168 Critical Pair (Not Joinable)



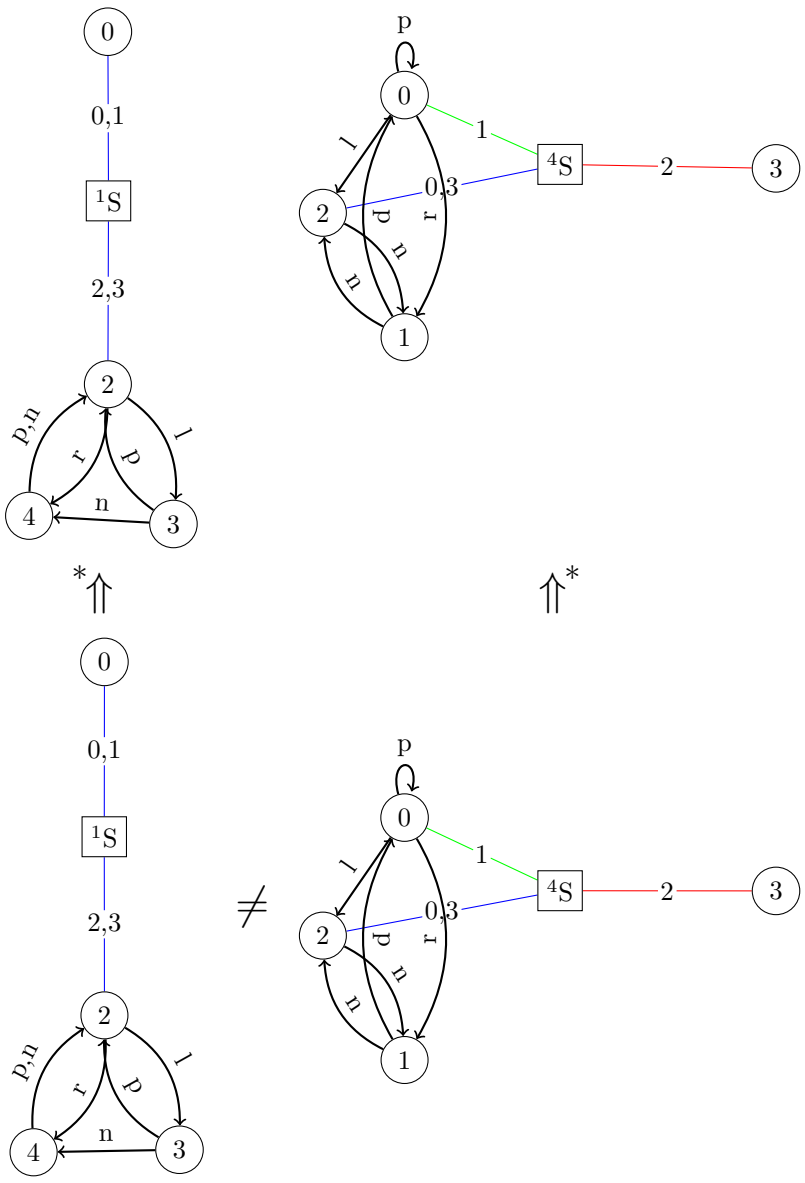
### 1.169 Critical Pair (Not Joinable)



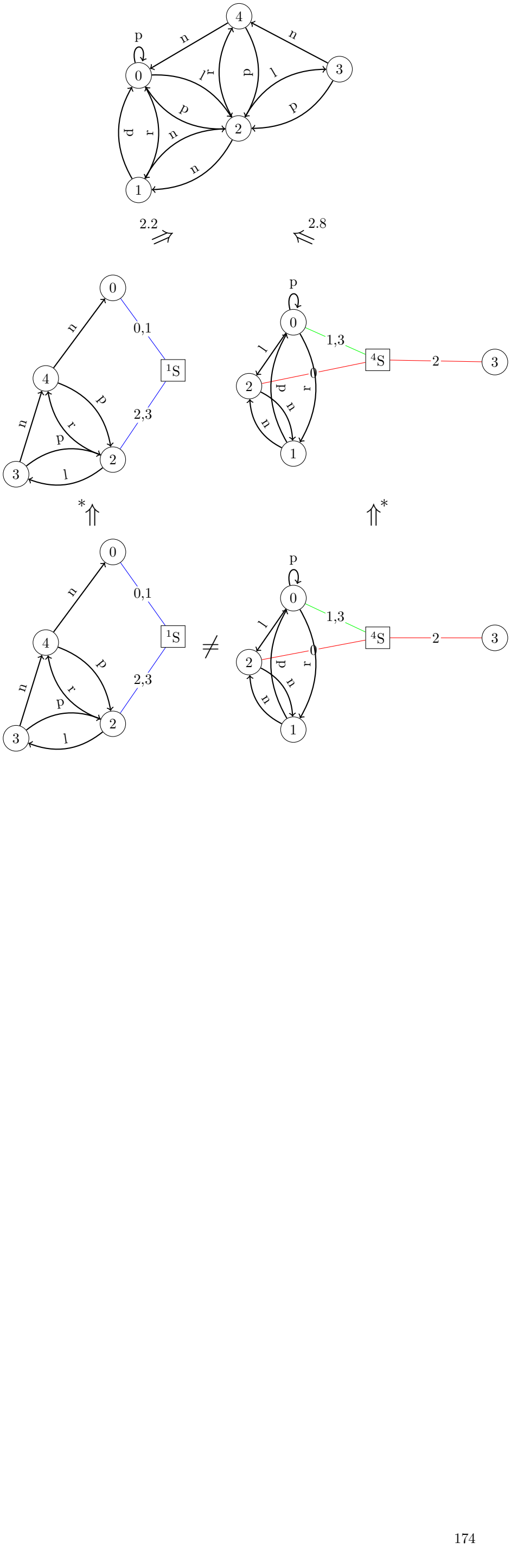
### 1.170 Critical Pair (Not Joinable)



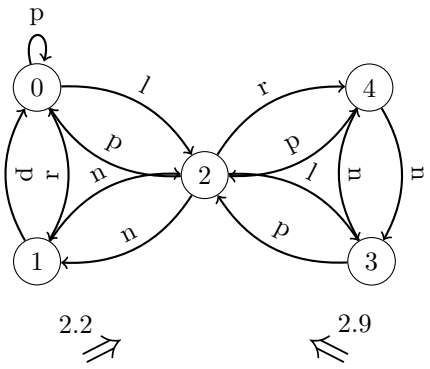

2.2 ⇛ 2.7 ⇚



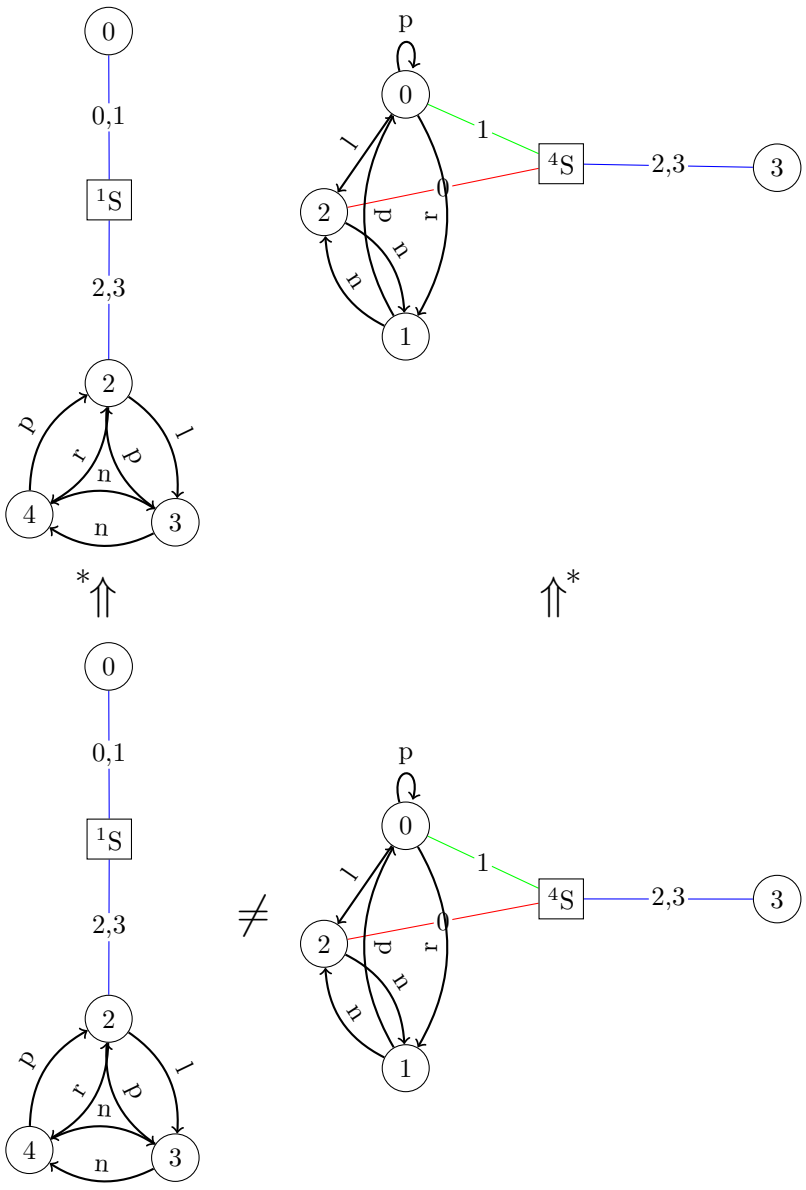
### 1.171 Critical Pair (Not Joinable)



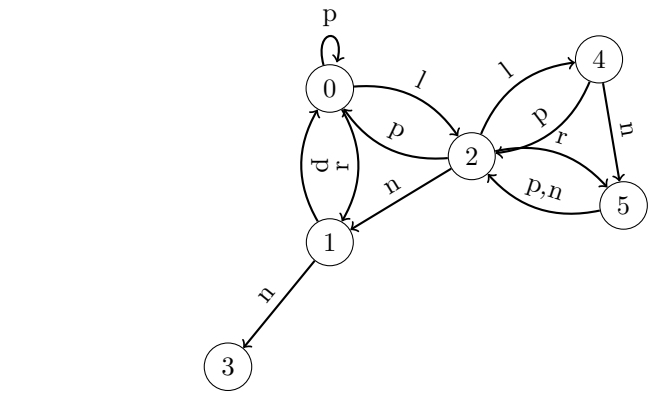
### 1.172 Critical Pair (Not Joinable)



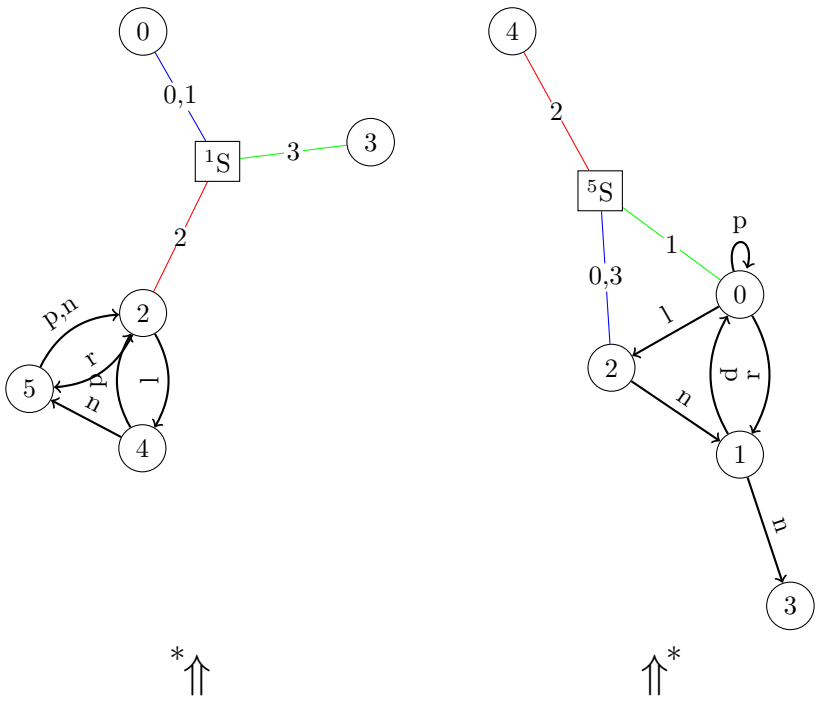

2.2 2.9



### 1.173 Critical Pair (Not Joinable)




2.3 2.7

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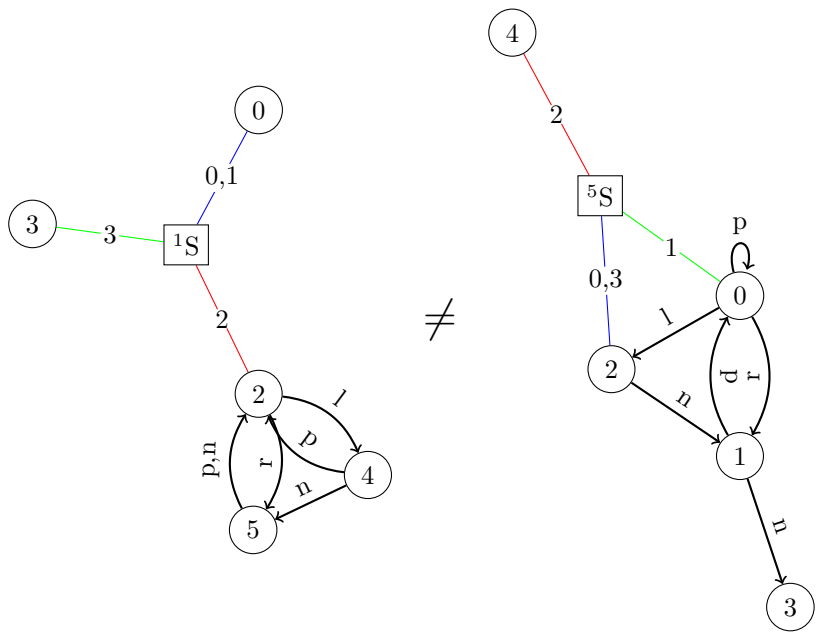
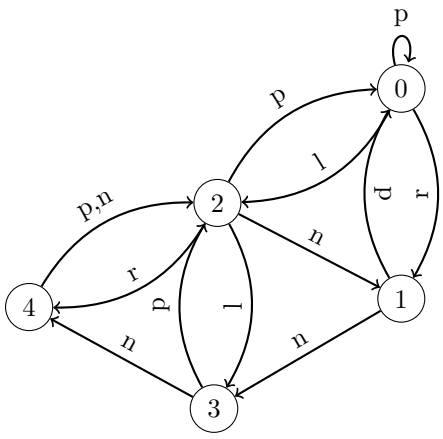
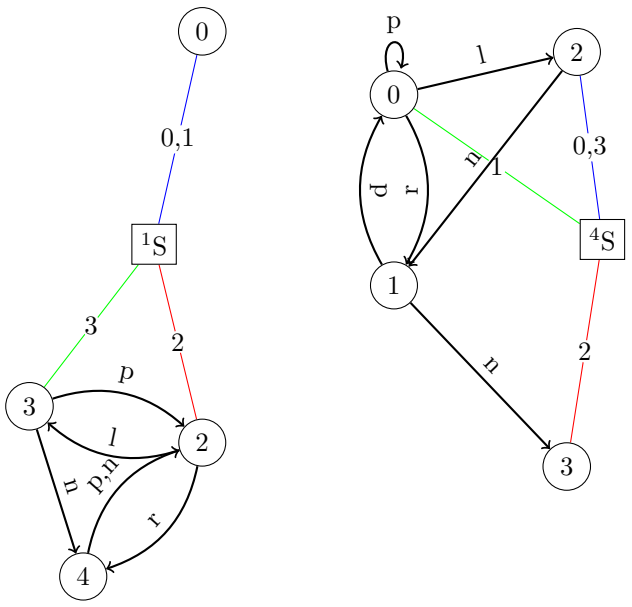
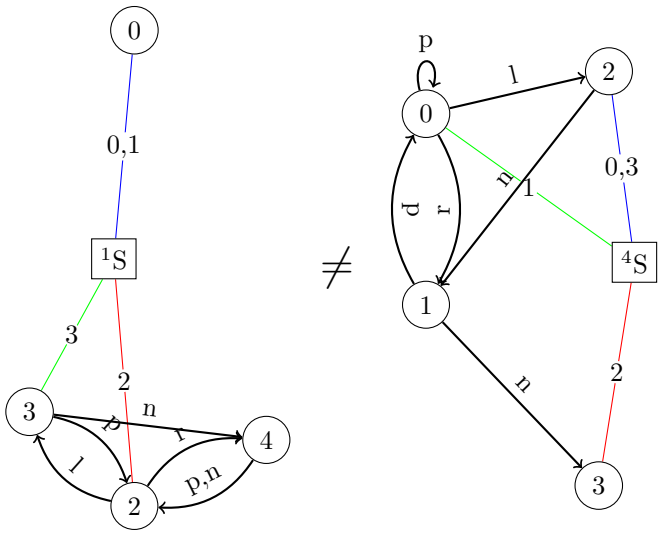


### 1.174 Critical Pair (Not Joinable)

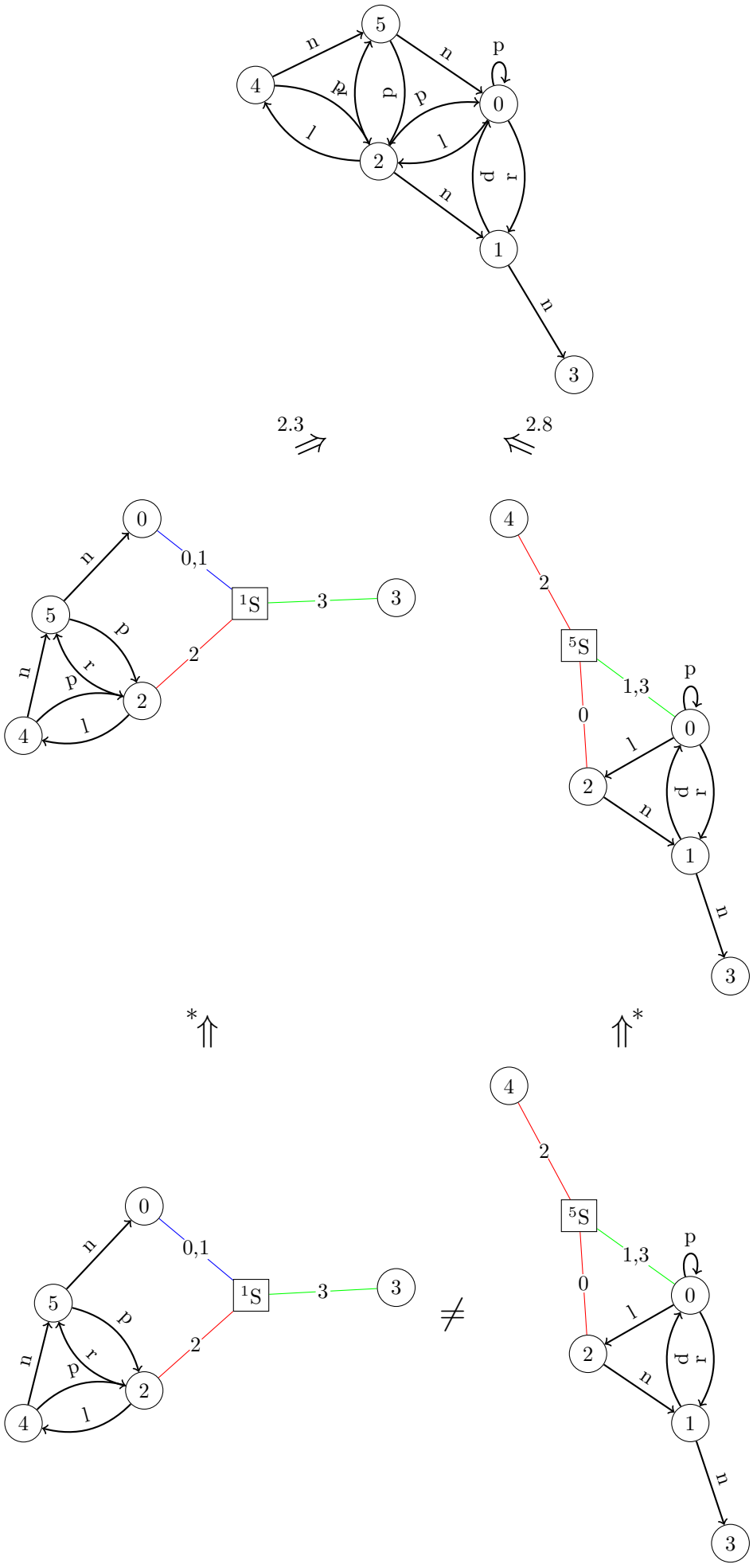



2.3 2.7

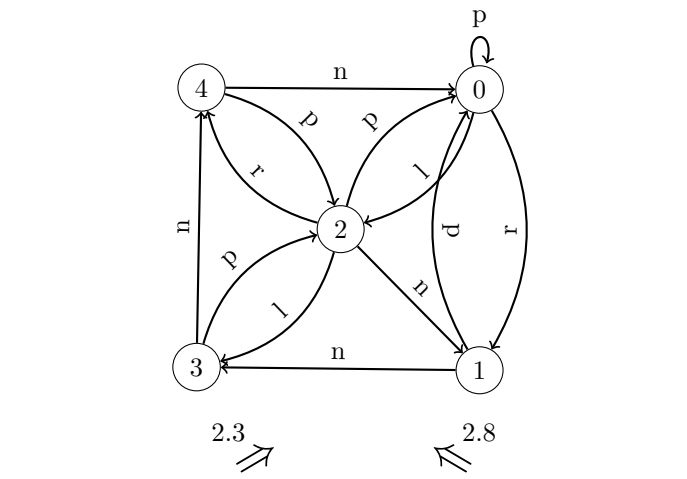


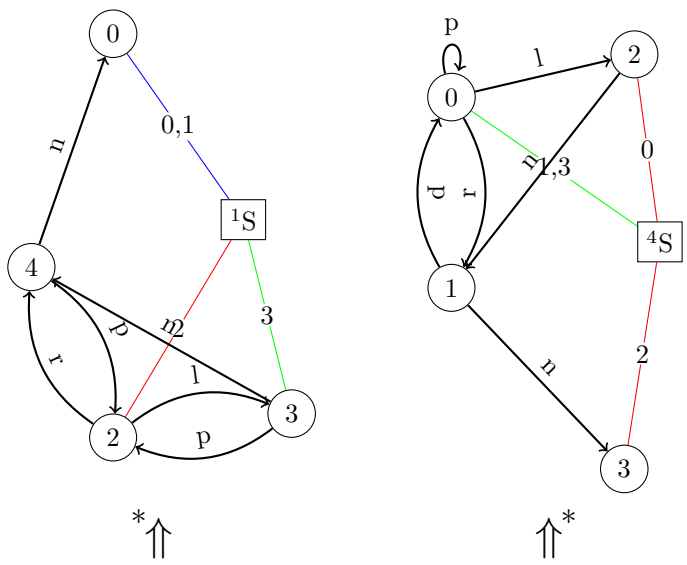



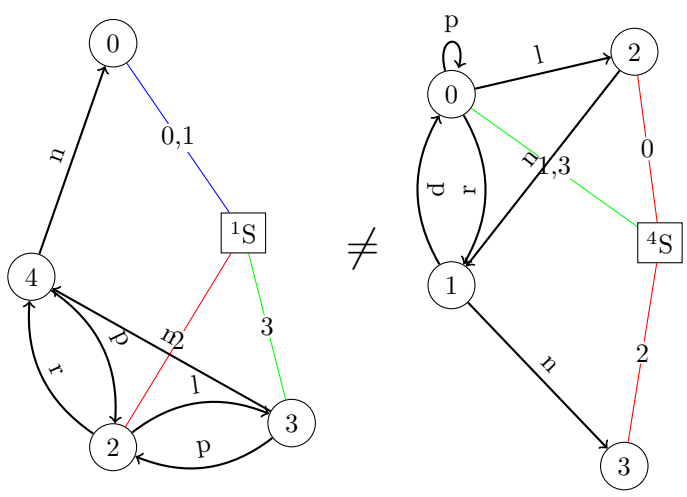
### 1.175 Critical Pair (Not Joinable)



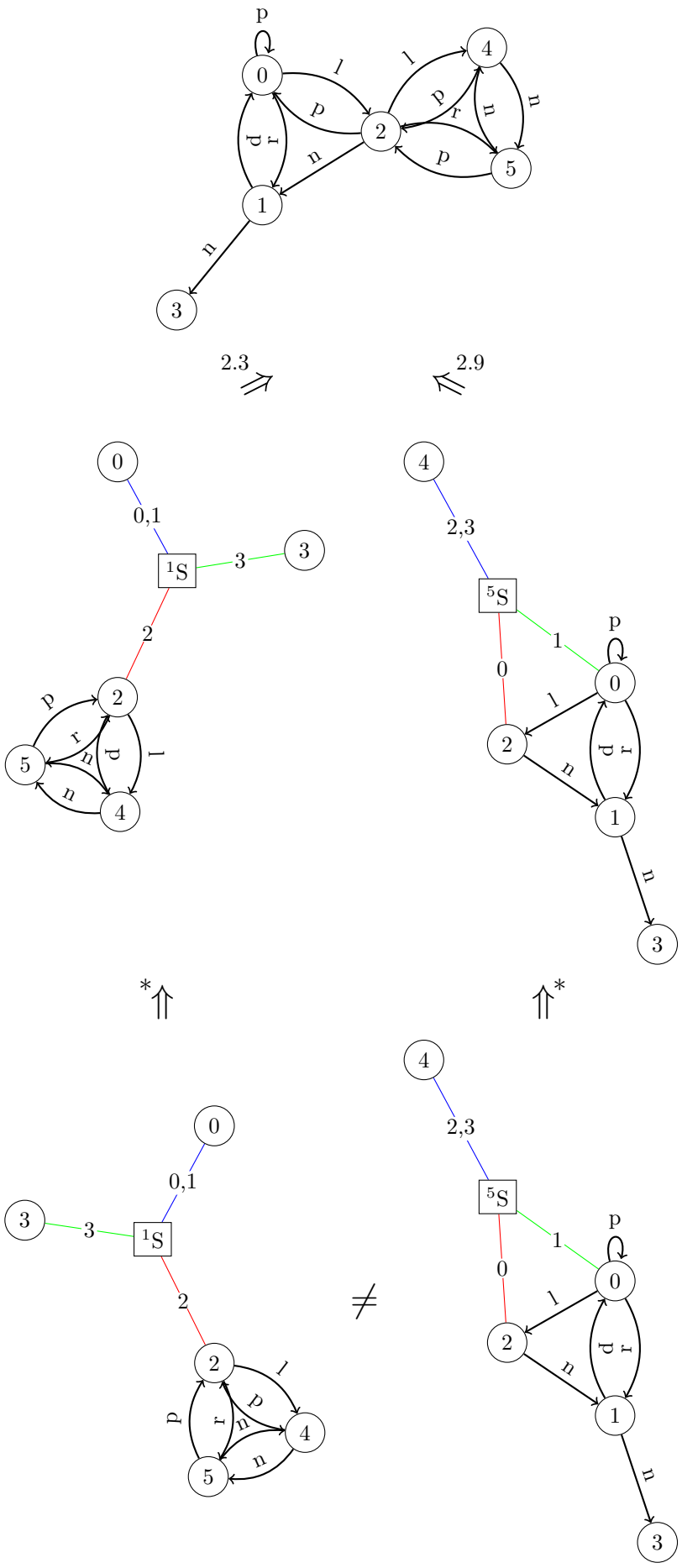
### 1.176 Critical Pair (Not Joinable)



### 1.177 Critical Pair (Not Joinable)

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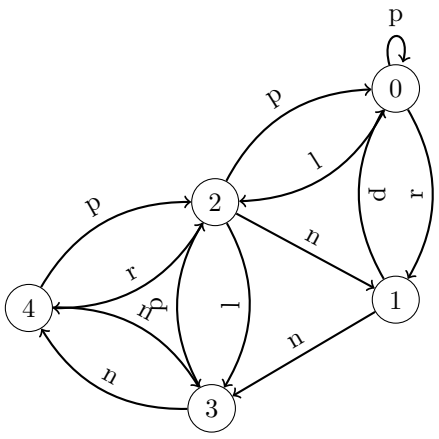
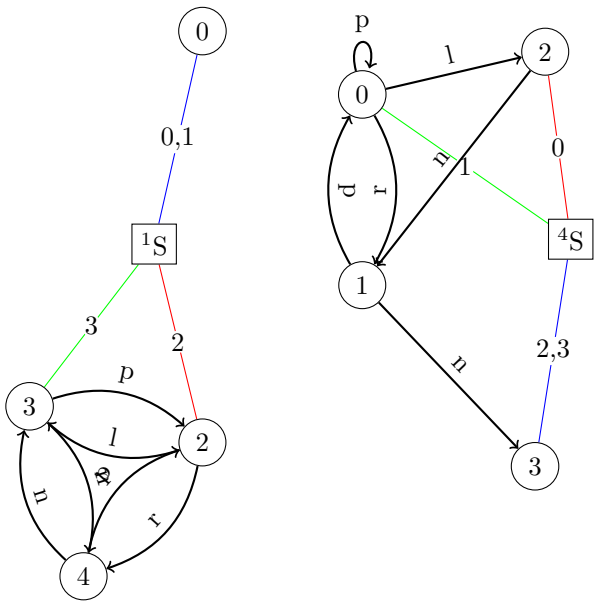
## 1.178 Critical Pair (Not Joinable)




2.3 2.9

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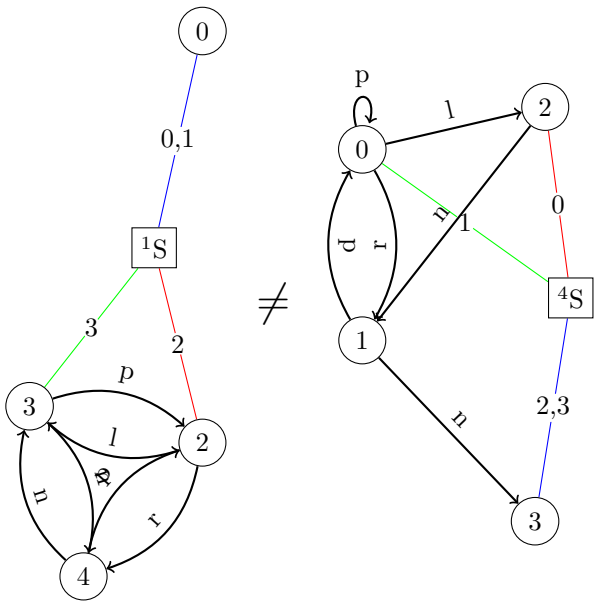


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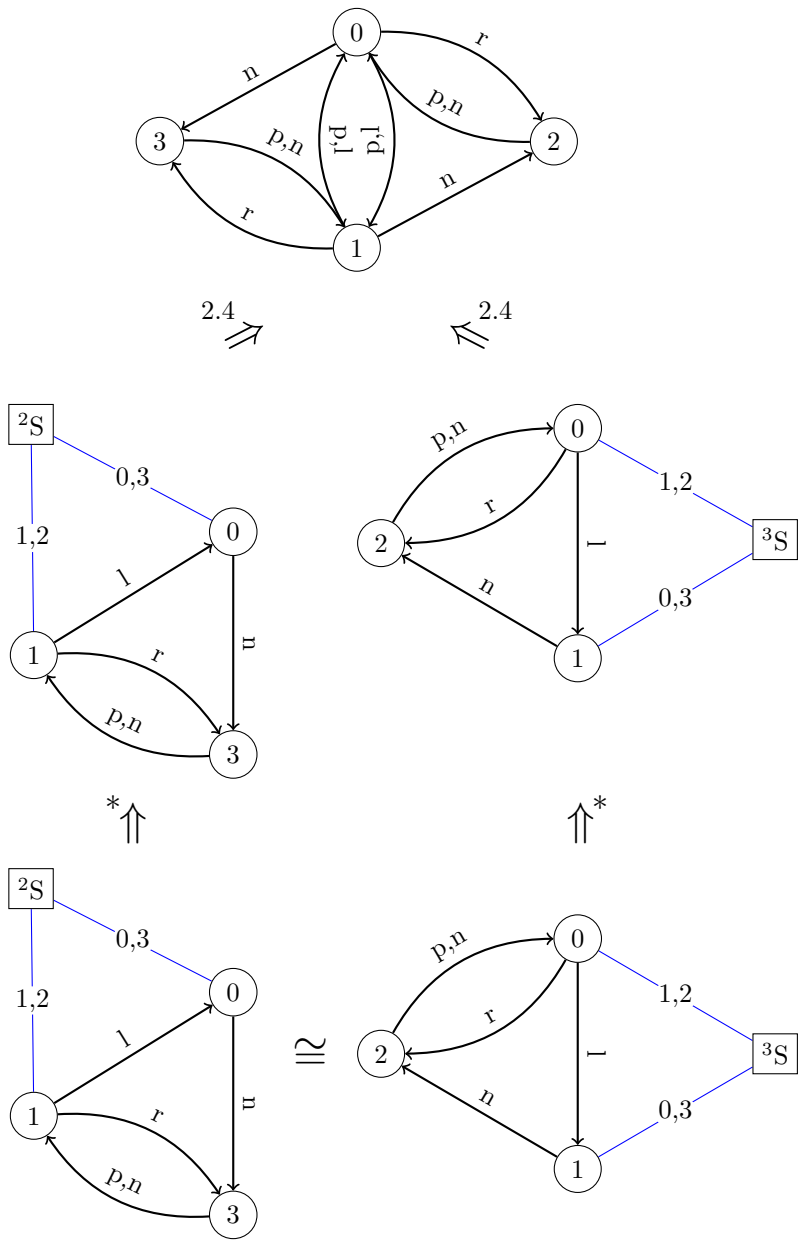
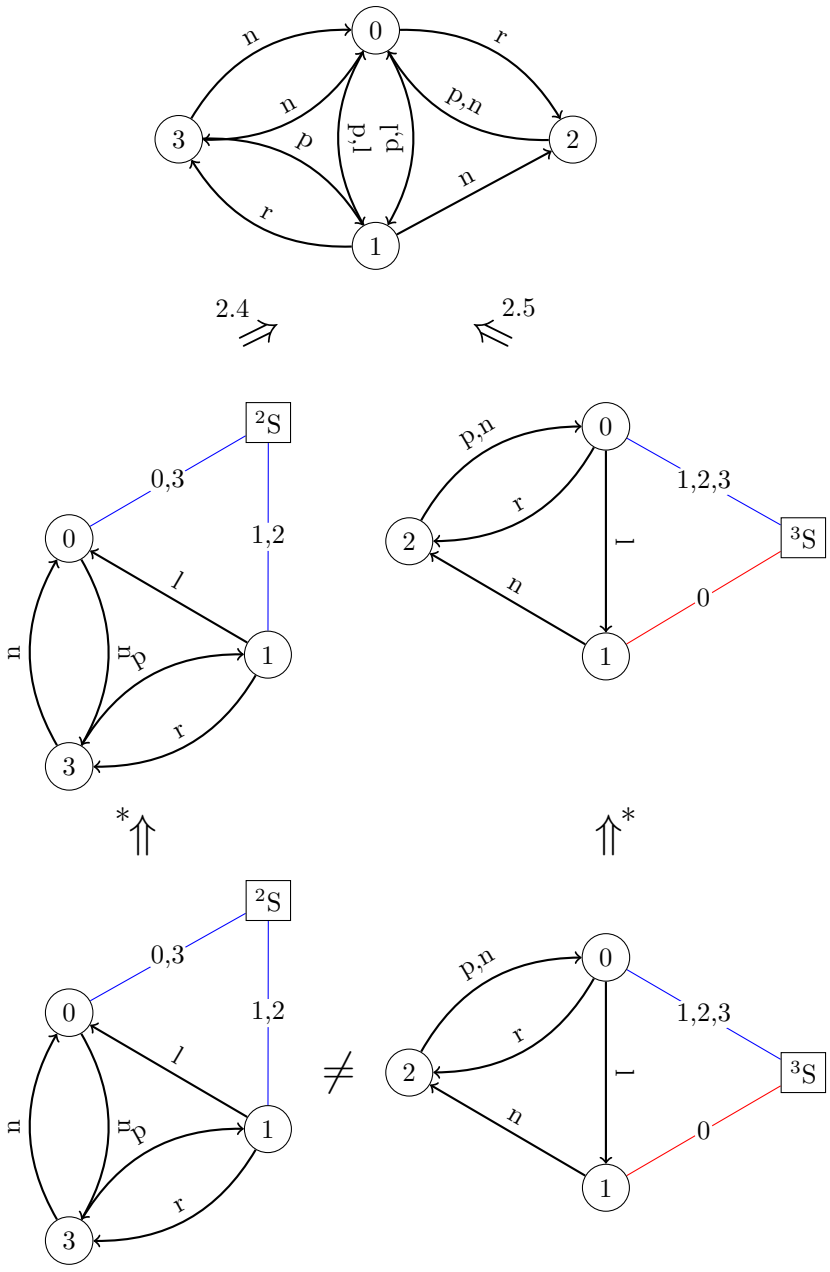
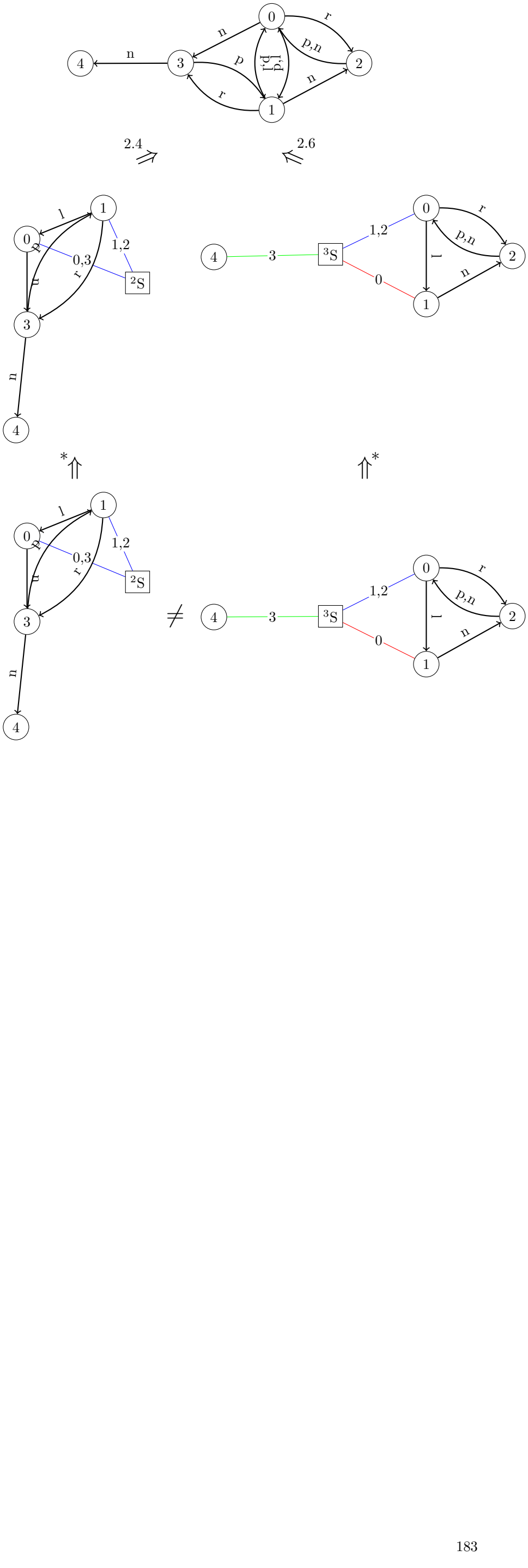
## 1.179 Critical Pair (Weakly Joinable)



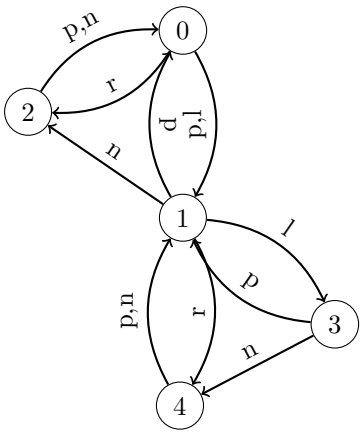

## 1.180 Critical Pair (Not Joinable)



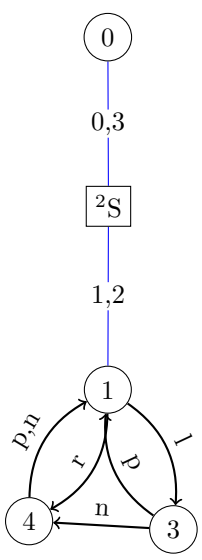
### 1.181 Critical Pair (Not Joinable)

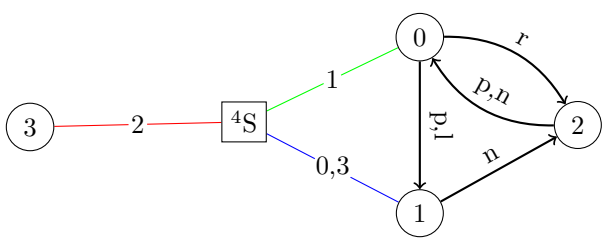


## 1.182 Critical Pair (Not Joinable)




2.4 2.7

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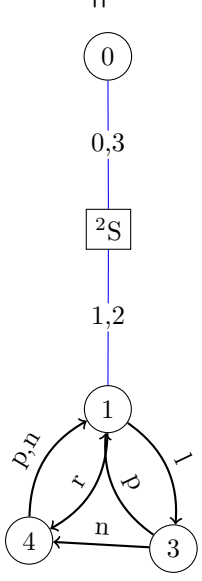


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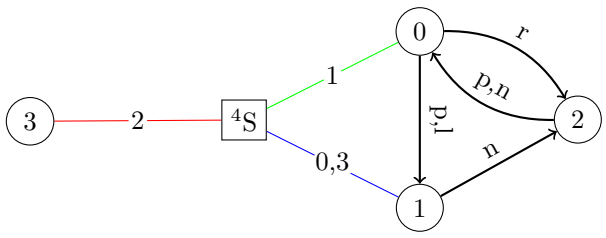
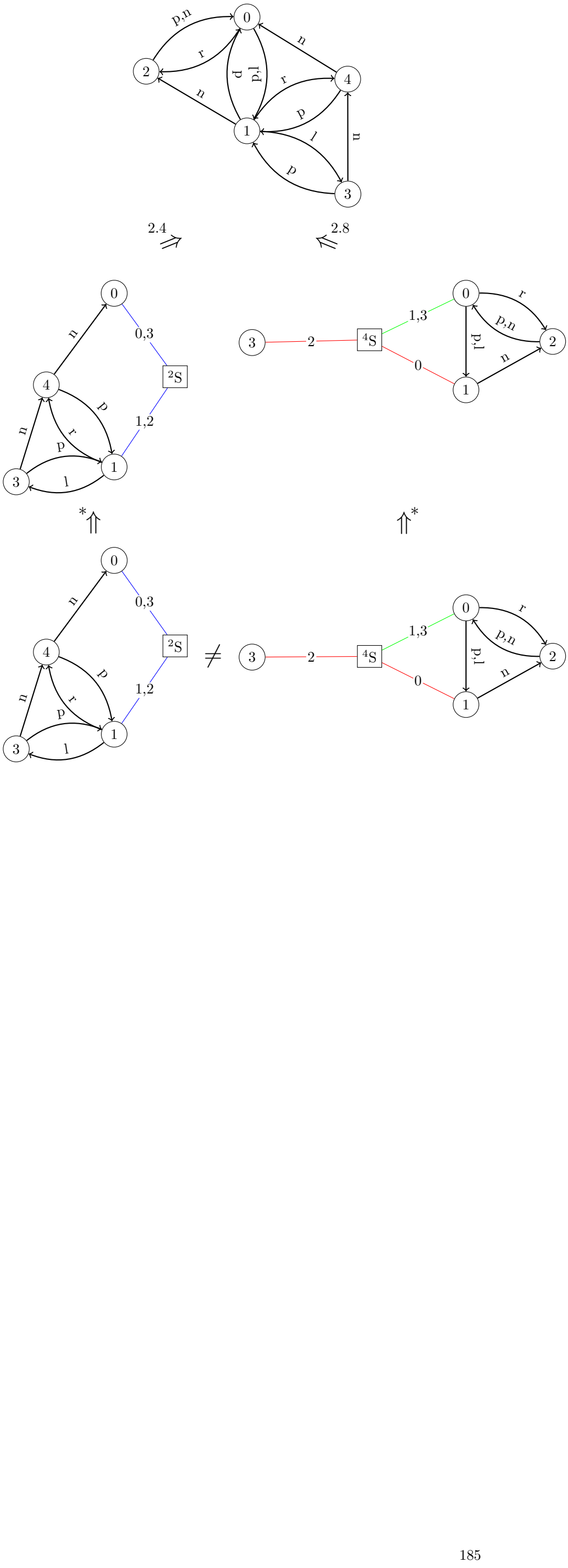
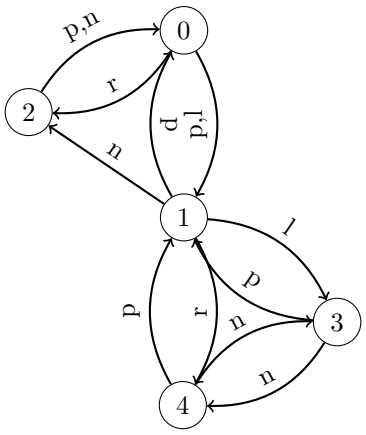


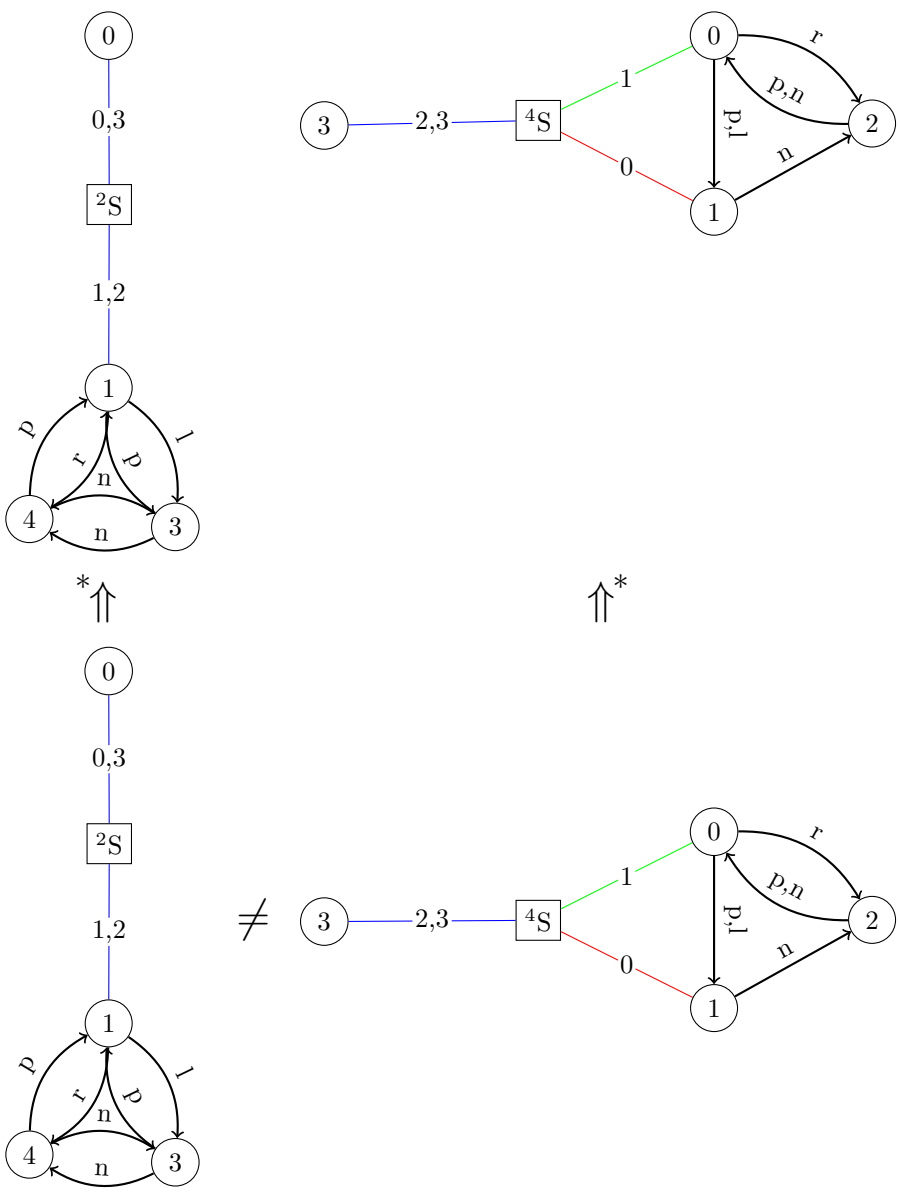
### 1.183 Critical Pair (Not Joinable)



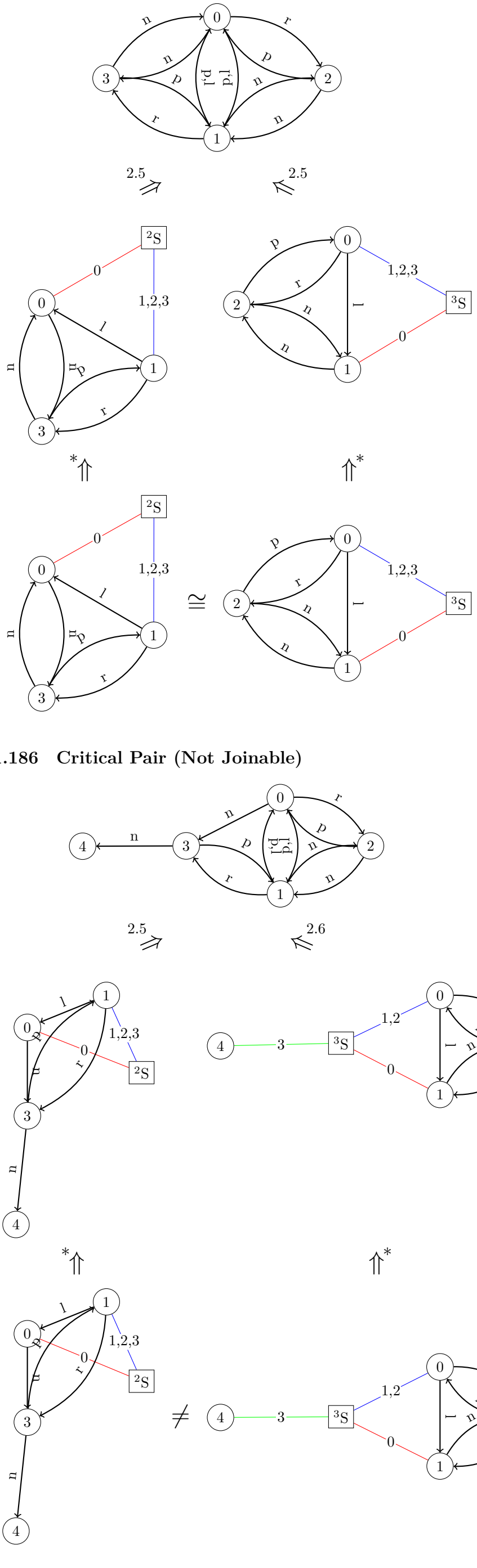
## 1.184 Critical Pair (Not Joinable)



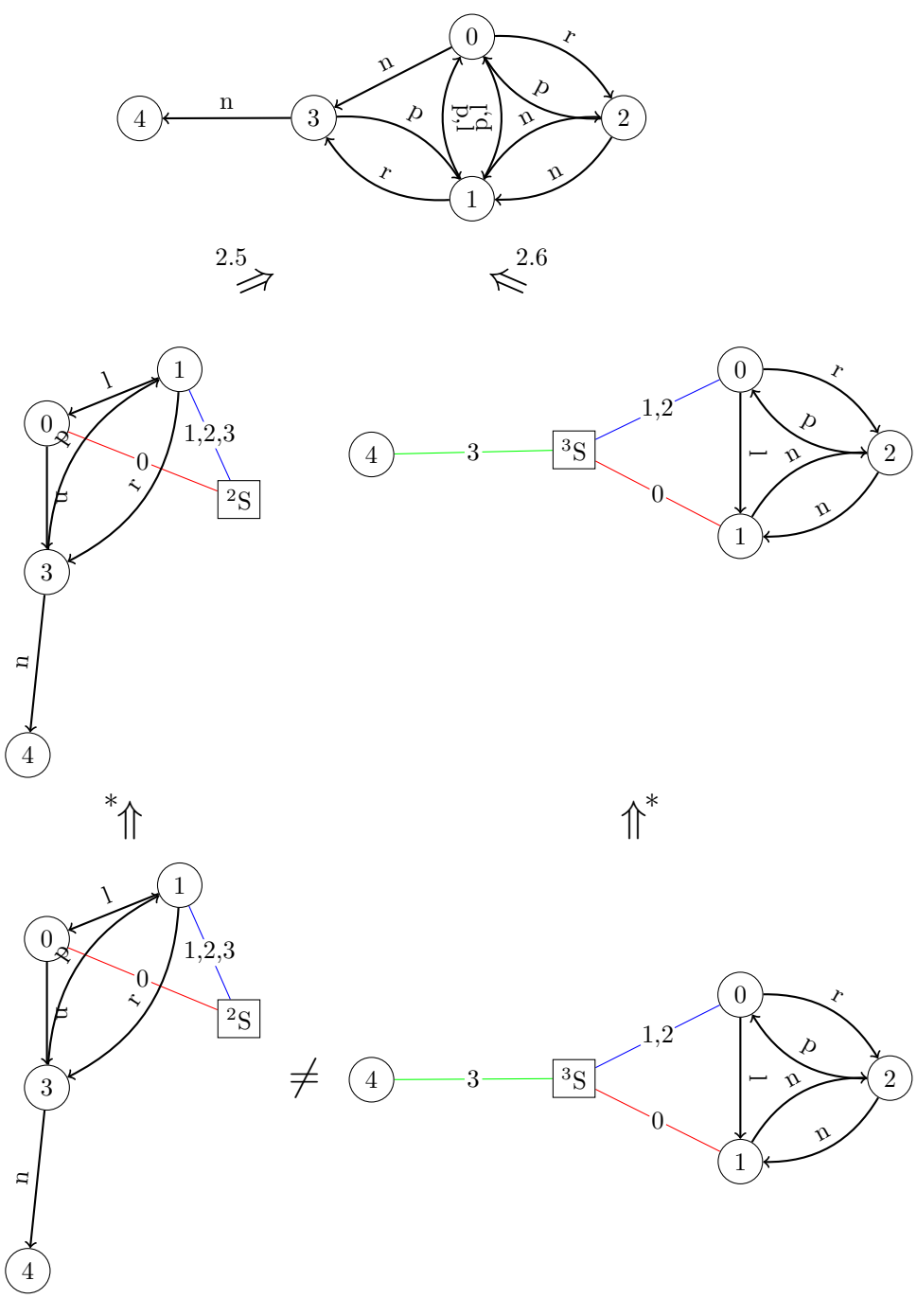

2.4 2.9



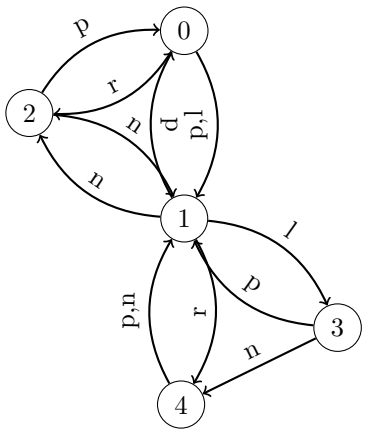
### 1.185 Critical Pair (Weakly Joinable)



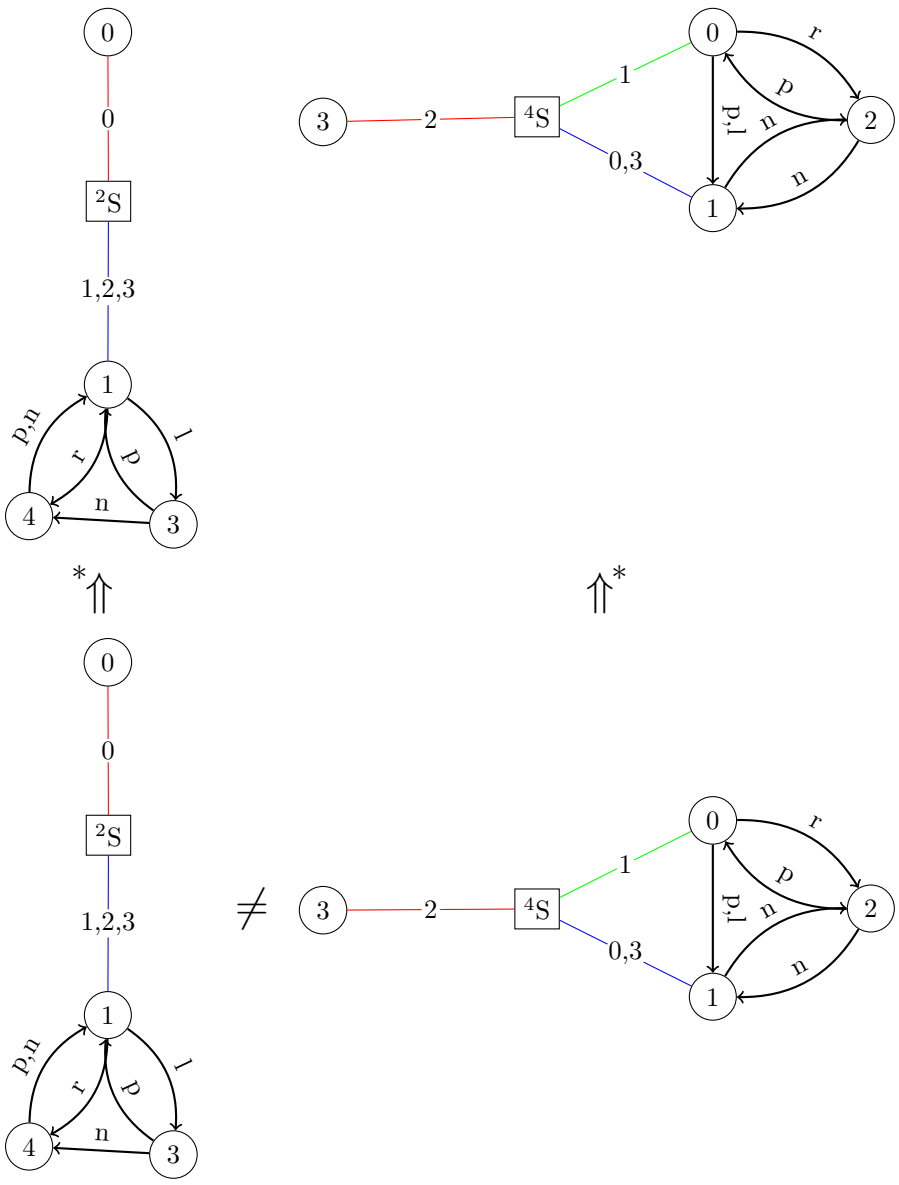

### 1.186 Critical Pair (Not Joinable)



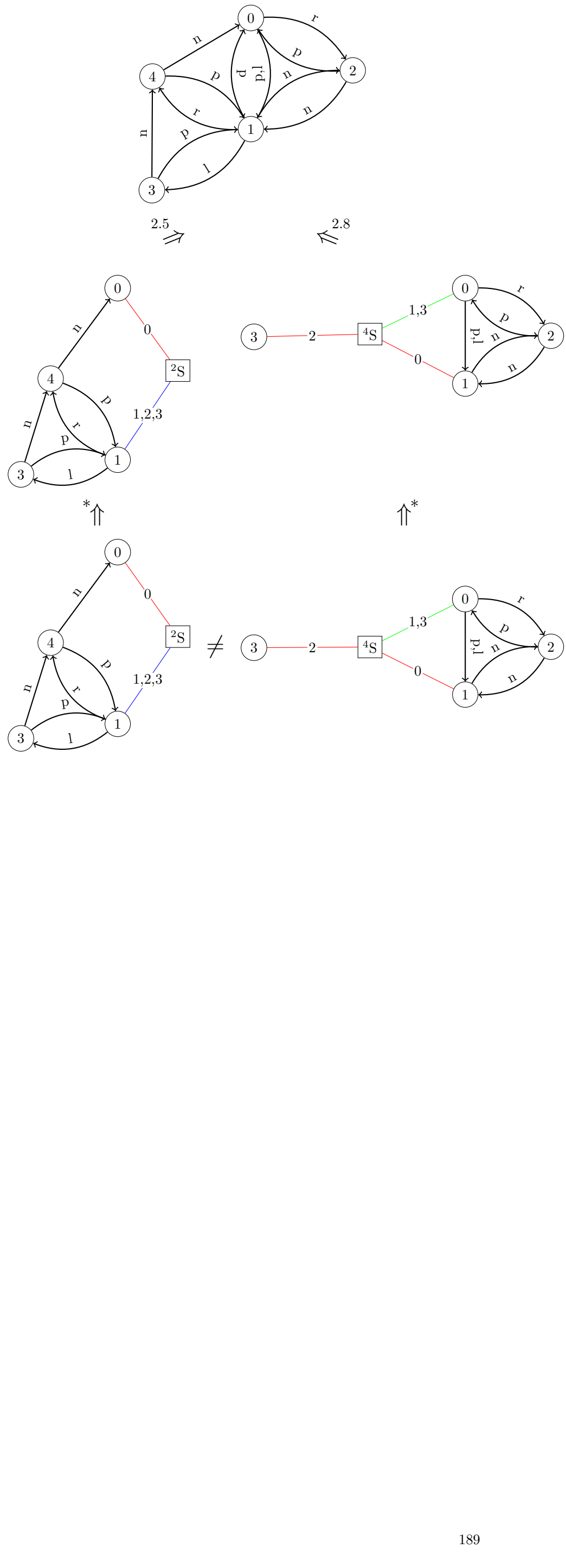
## 1.187 Critical Pair (Not Joinable)



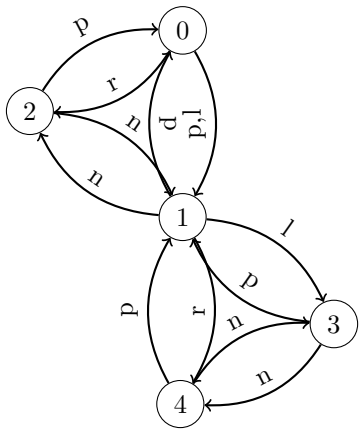

2.5 2.7



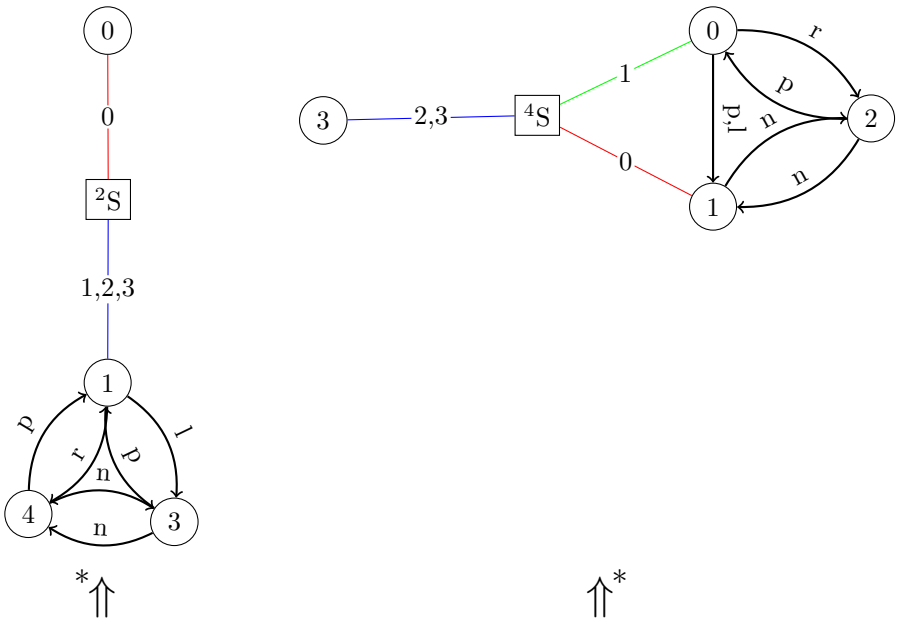
## 1.188 Critical Pair (Not Joinable)



## 1.189 Critical Pair (Not Joinable)




2.5 2.9

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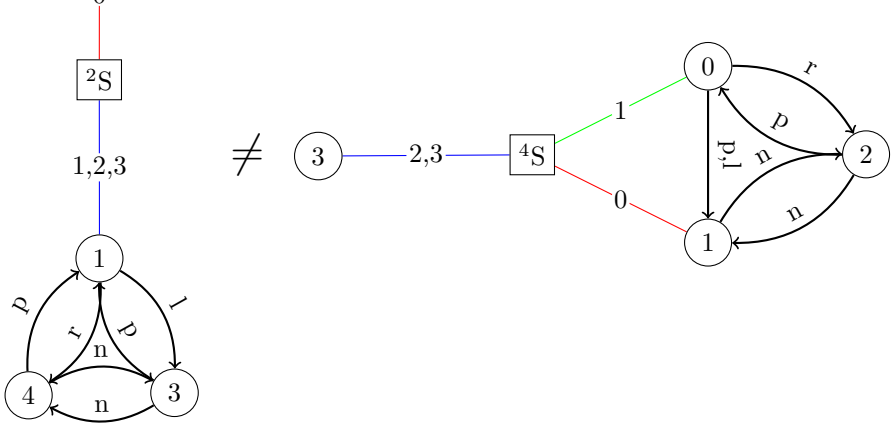
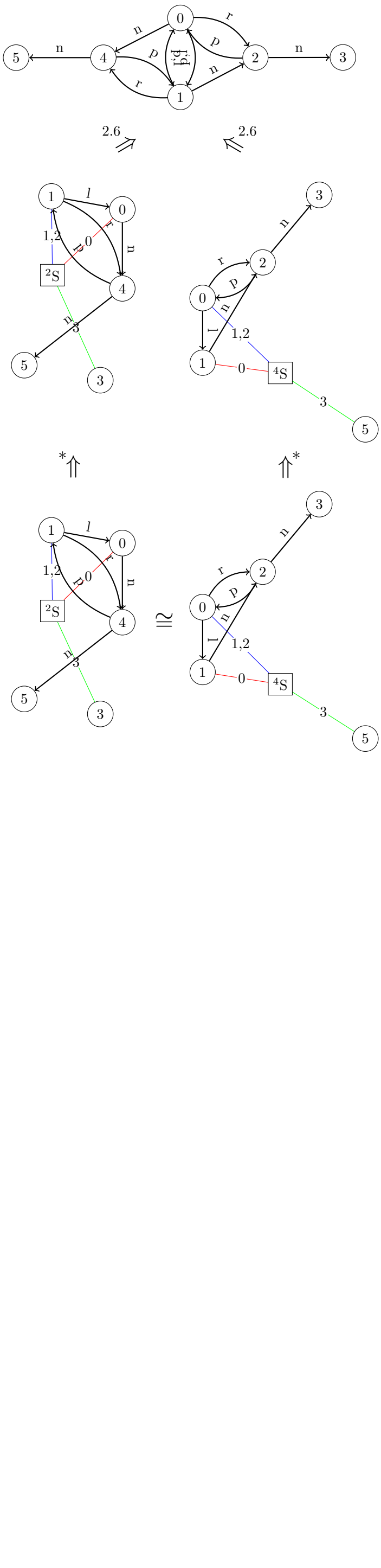
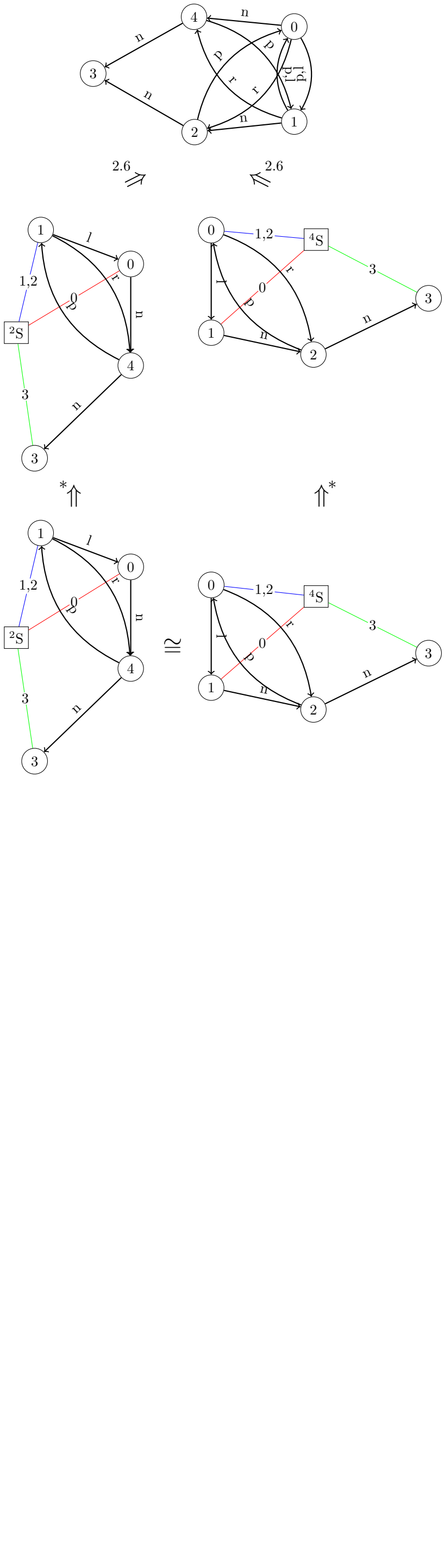


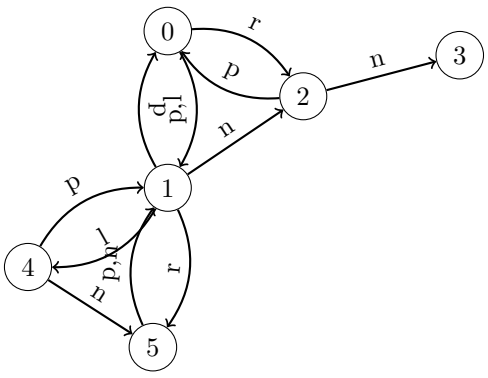
## 1.190 Critical Pair (Weakly Joinable)



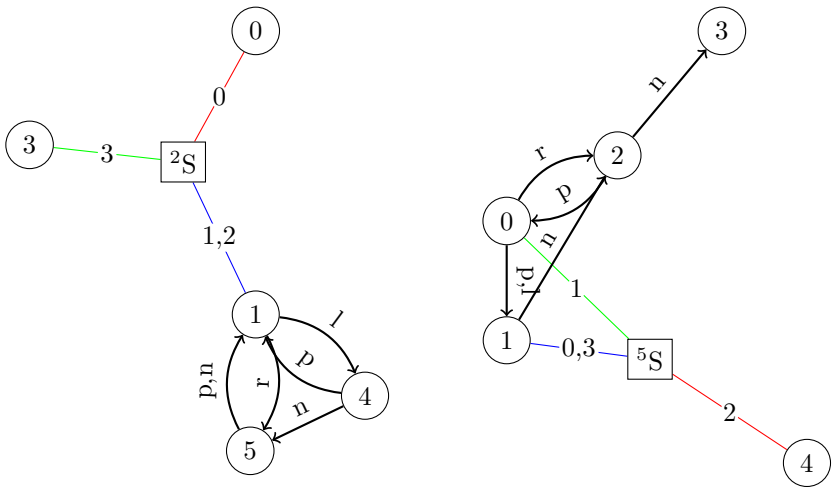
### 1.191 Critical Pair (Weakly Joinable)



## 1.192 Critical Pair (Not Joinable)




2.6 2.7







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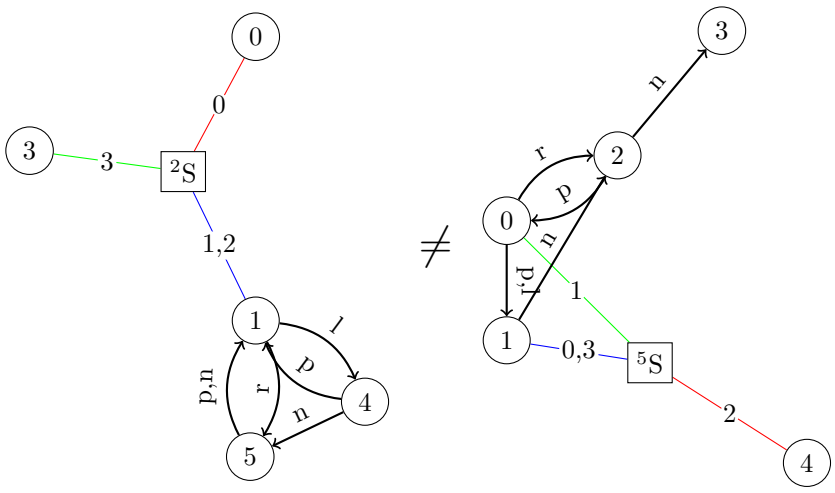


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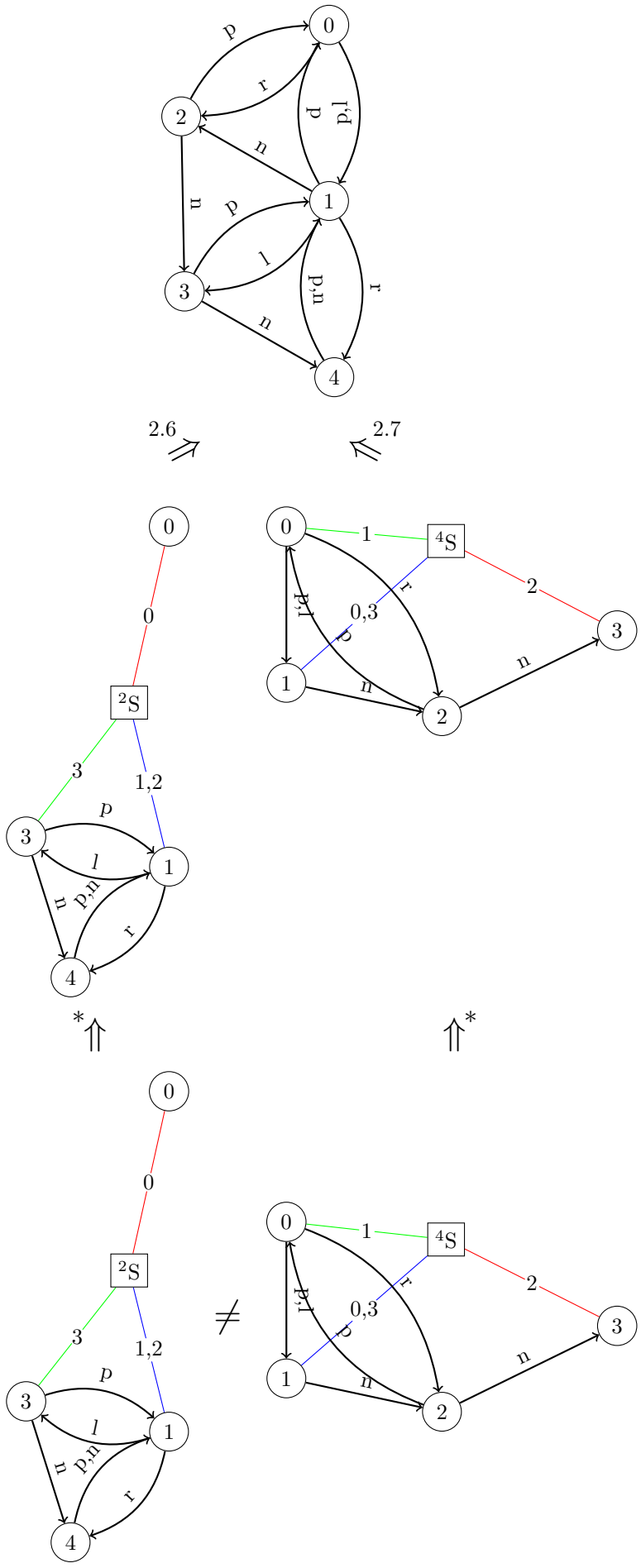
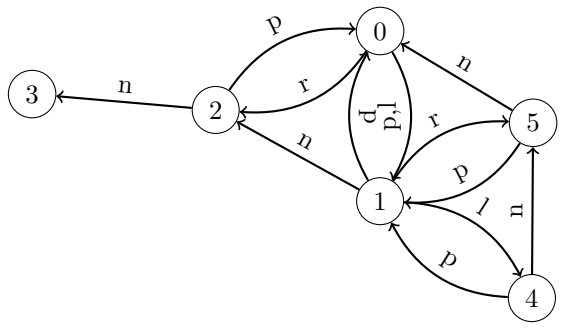
### 1.193 Critical Pair (Not Joinable)



## 1.194 Critical Pair (Not Joinable)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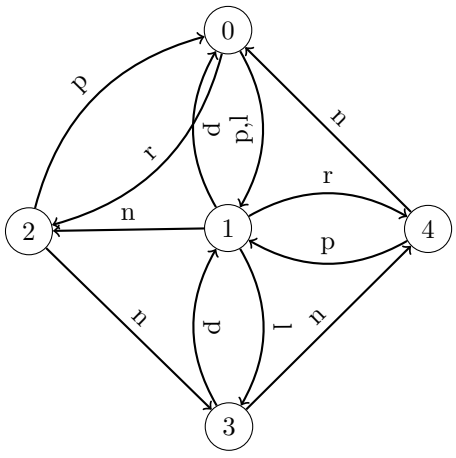
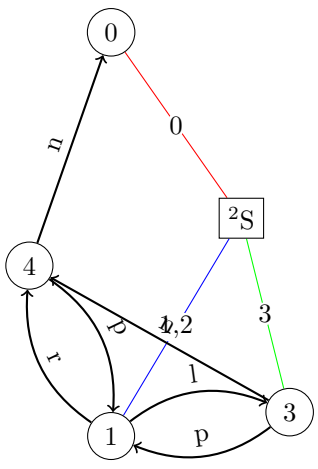
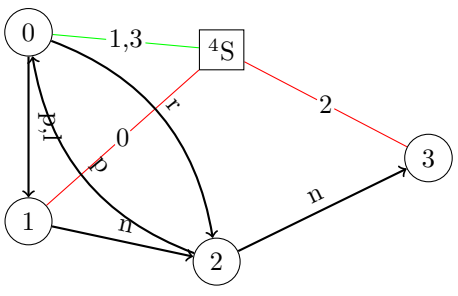
### 1.195 Critical Pair (Not Joinable)

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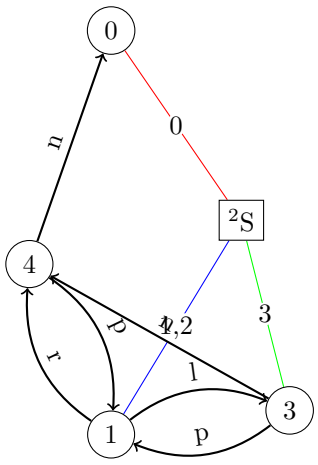
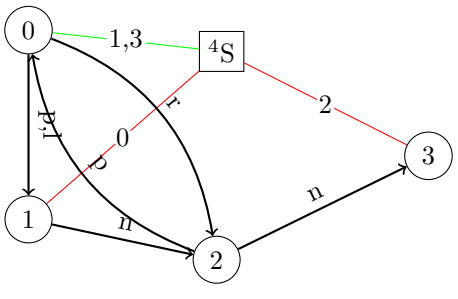
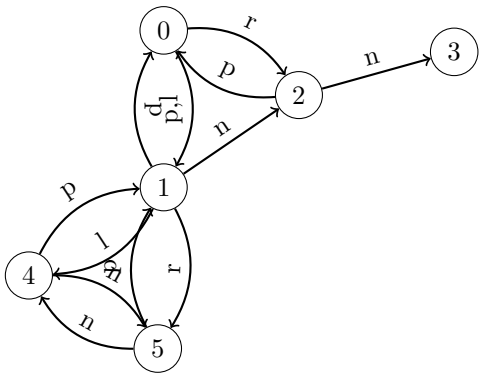
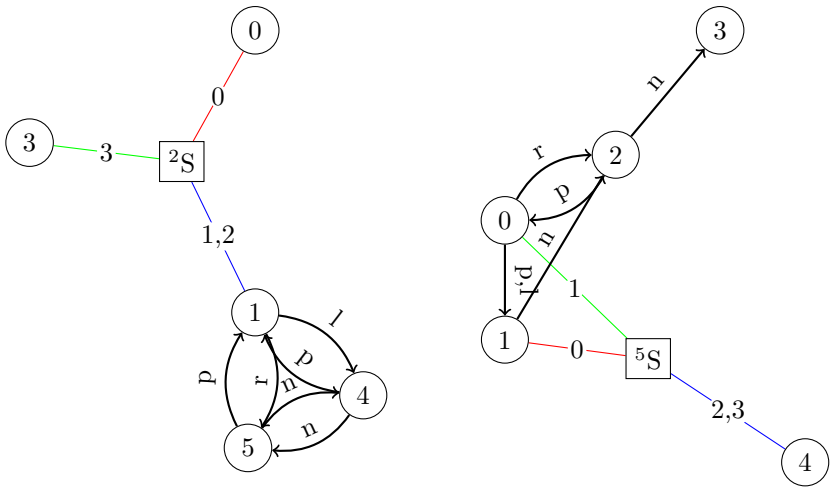


### 1.196 Critical Pair (Not Joinable)




2.6 ⇛ 2.9 ⇚

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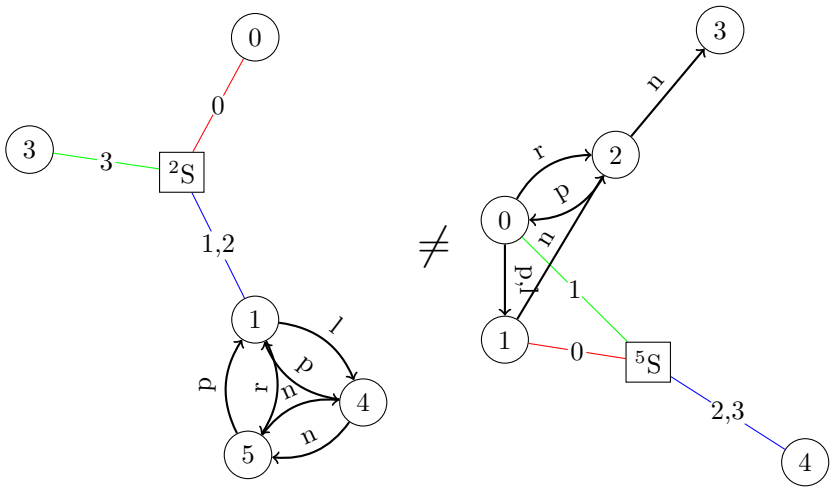
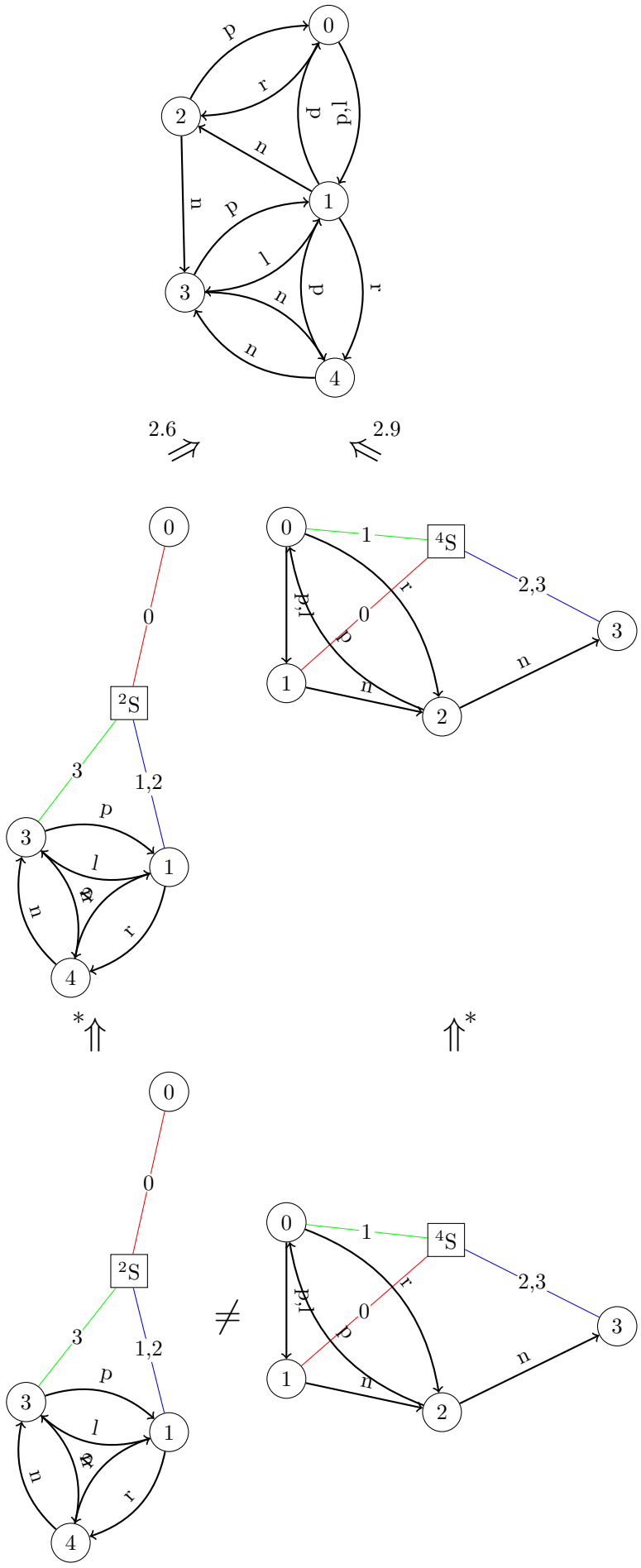
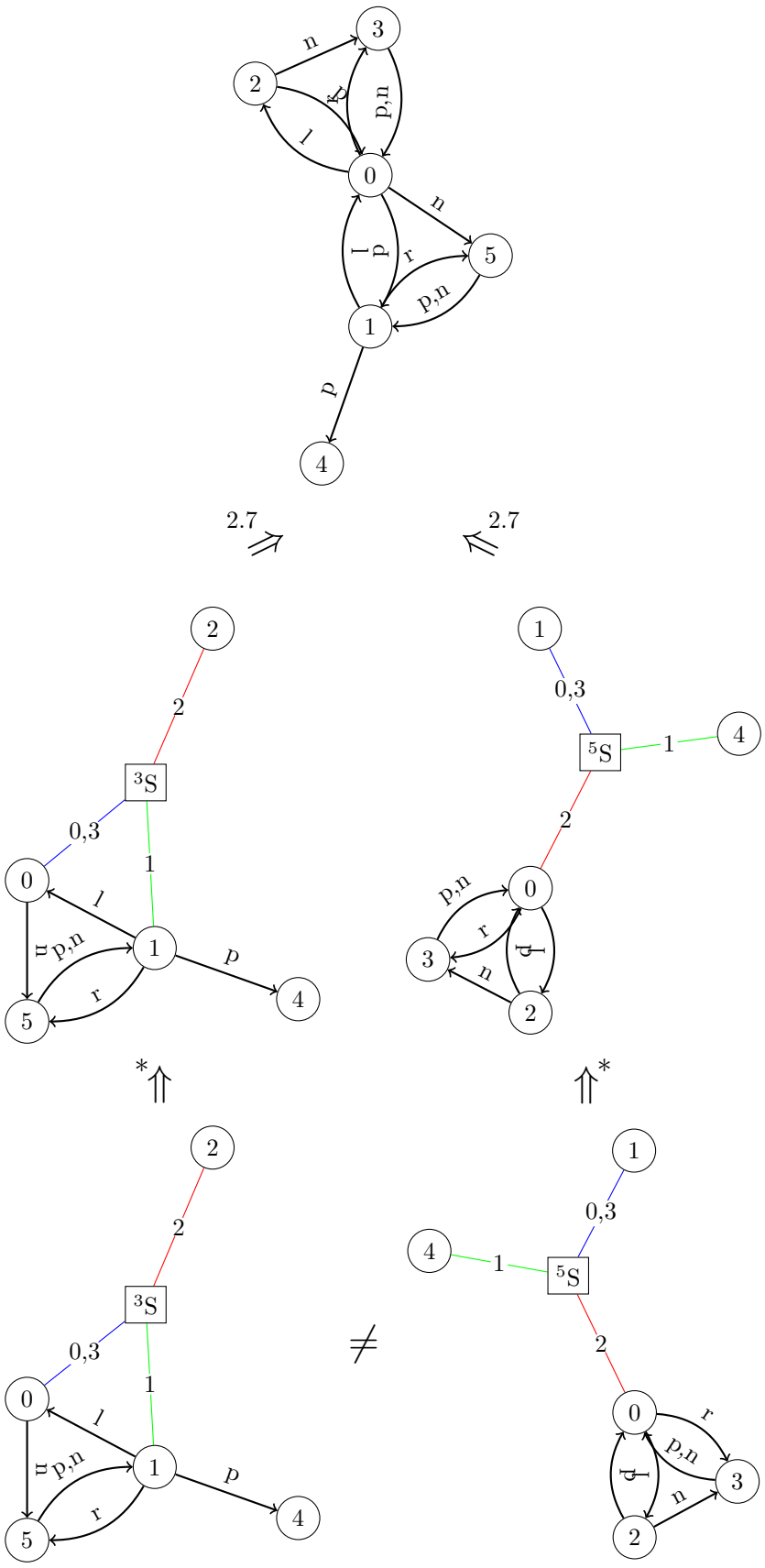


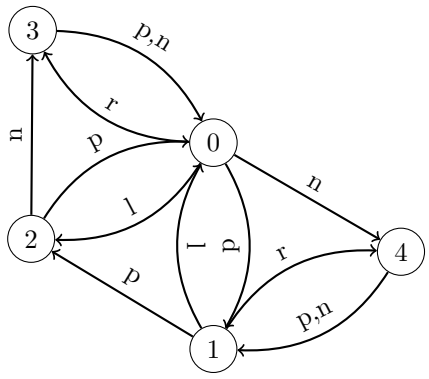
### 1.197 Critical Pair (Not Joinable)



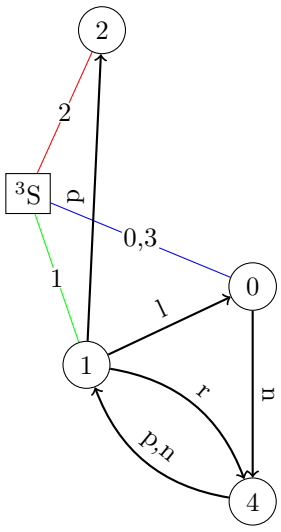
### 1.198 Critical Pair (Not Joinable)

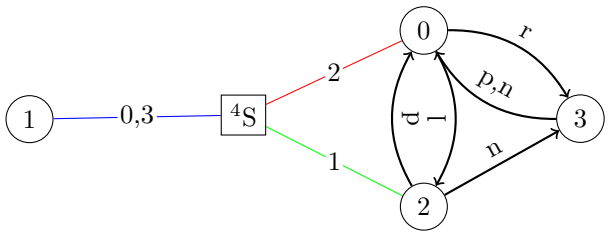


## 1.199 Critical Pair (Not Joinable)




2.7 2.7

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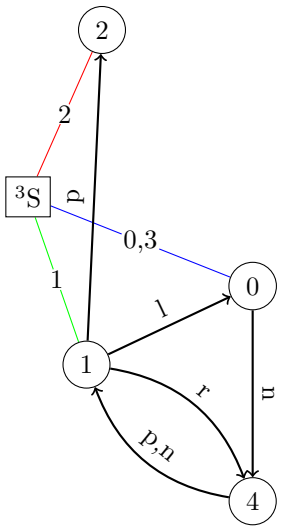


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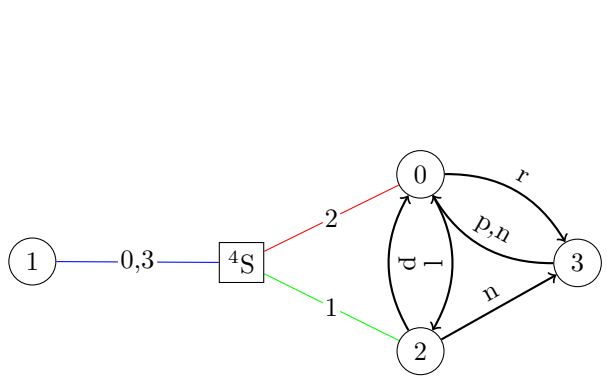
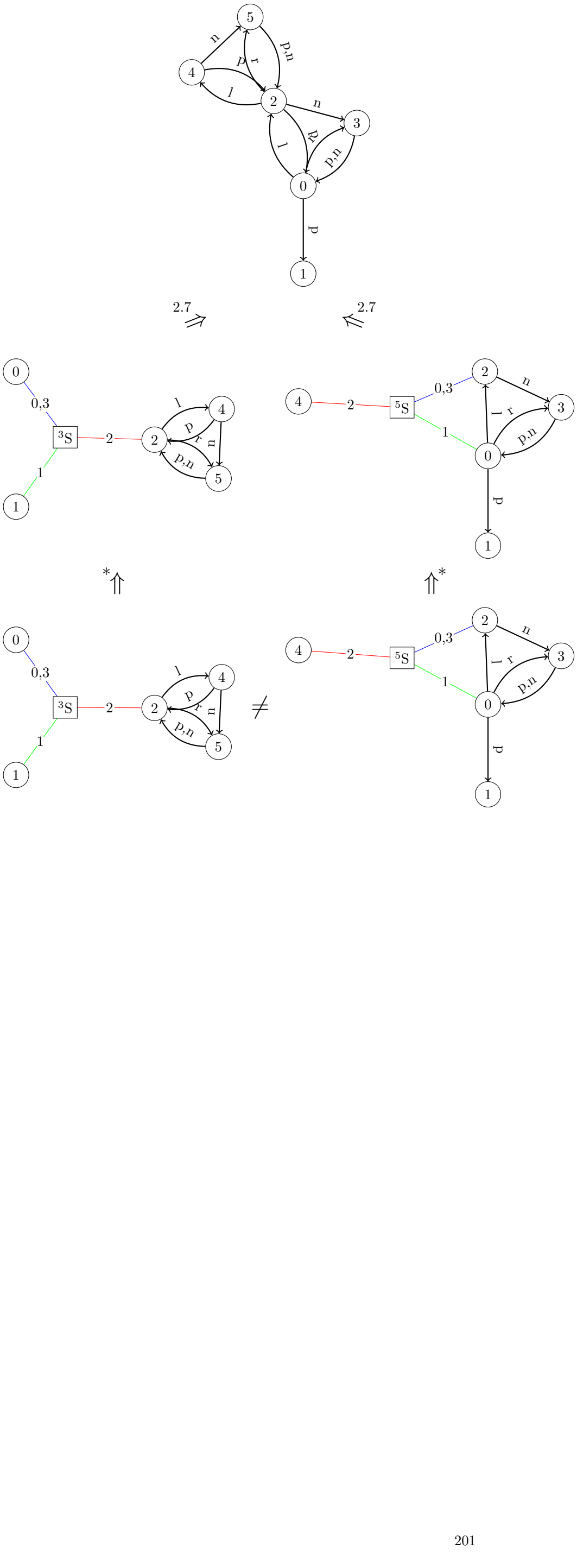
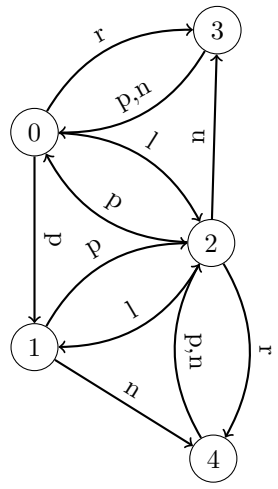


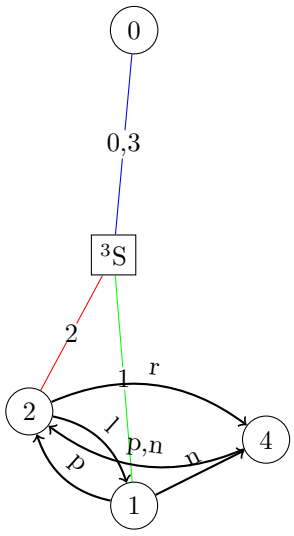
### 1.200 Critical Pair (Not Joinable)



### 1.201 Critical Pair (Not Joinable)




2.7 2.7

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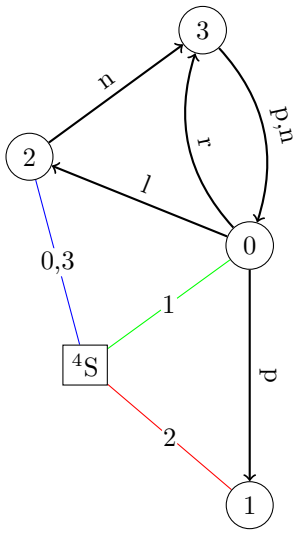


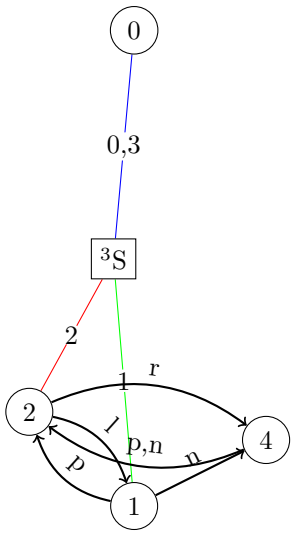


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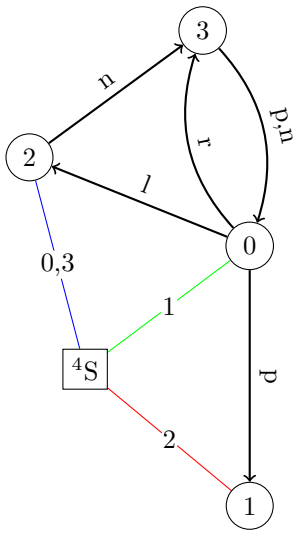
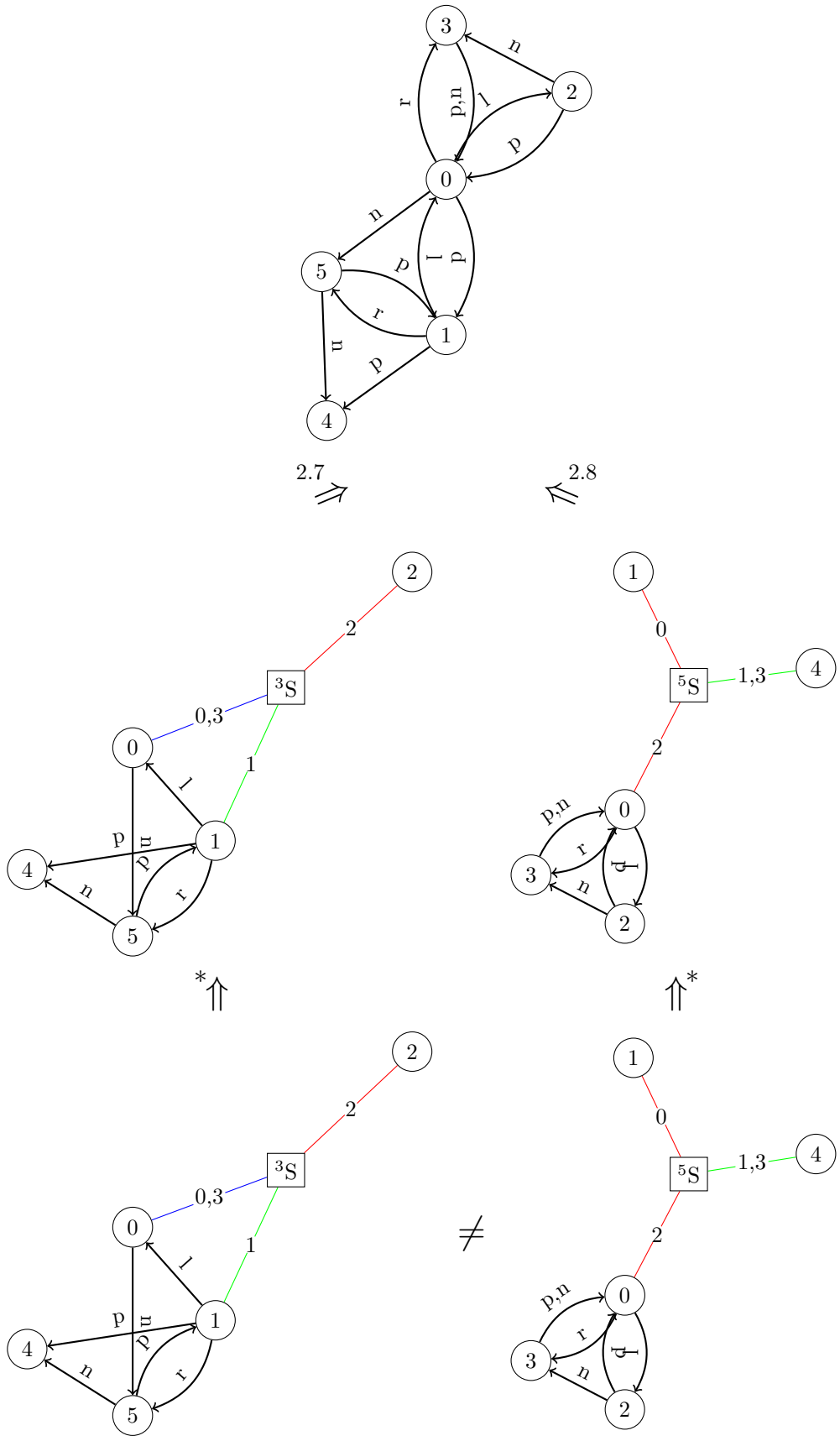
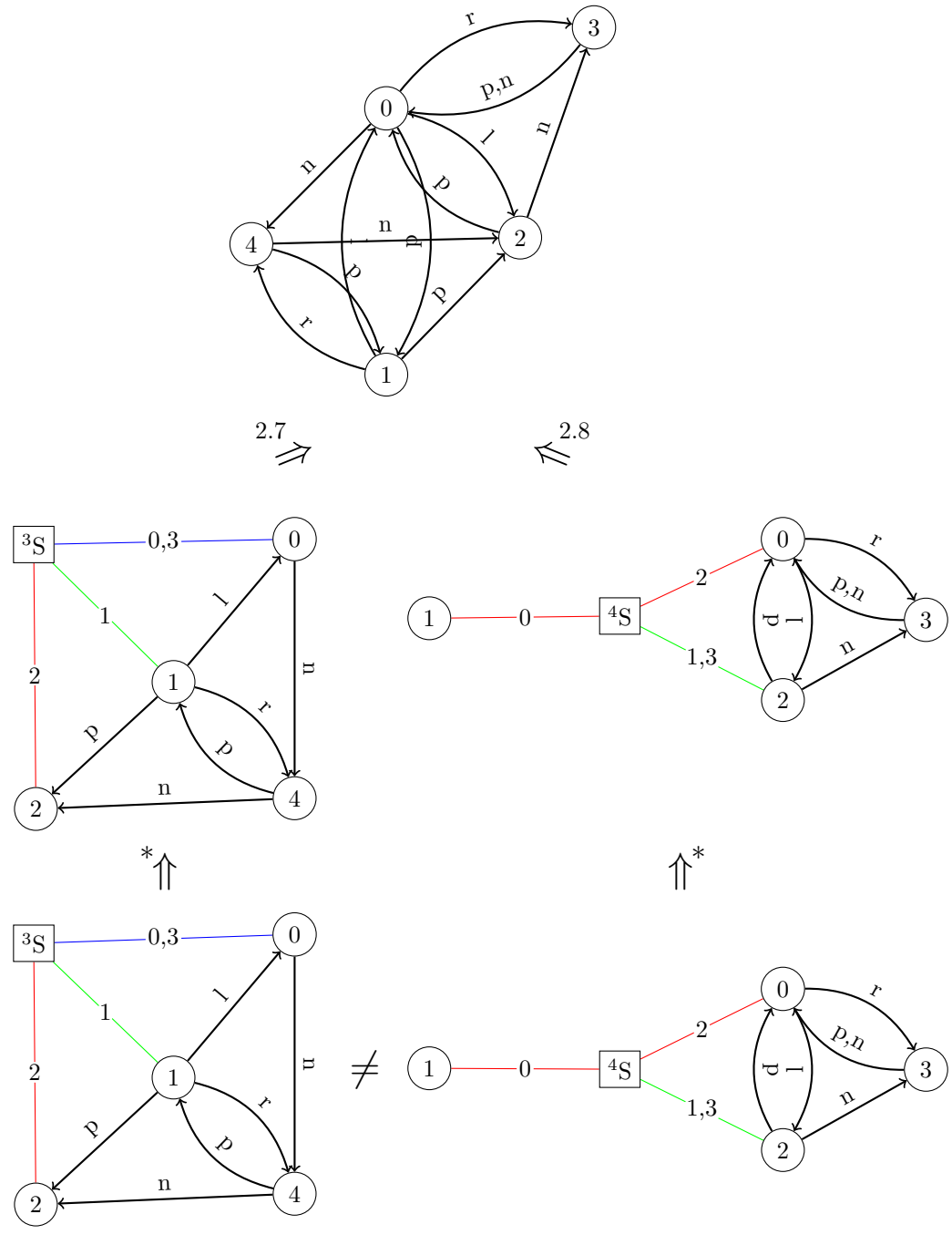


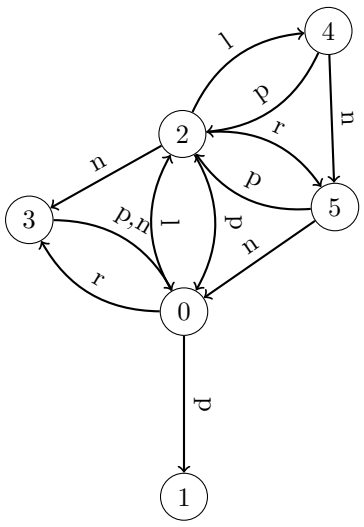
## 1.202 Critical Pair (Not Joinable)



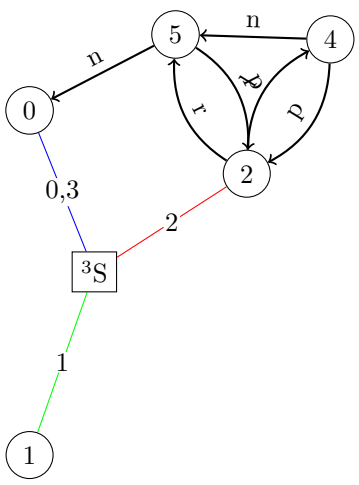
### 1.203 Critical Pair (Not Joinable)

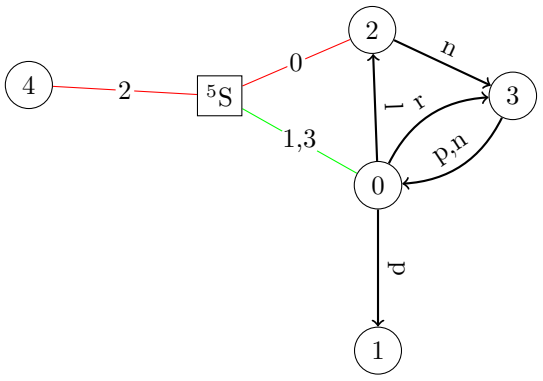


## 1.204 Critical Pair (Not Joinable)




2.7 ⇛ 2.8 ⇚

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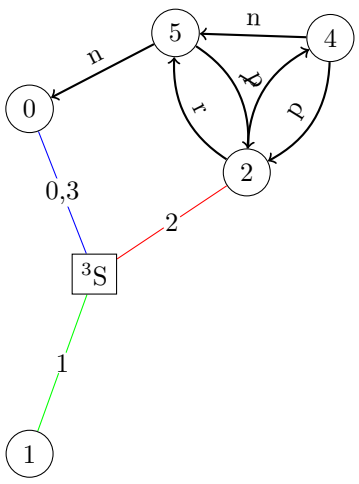
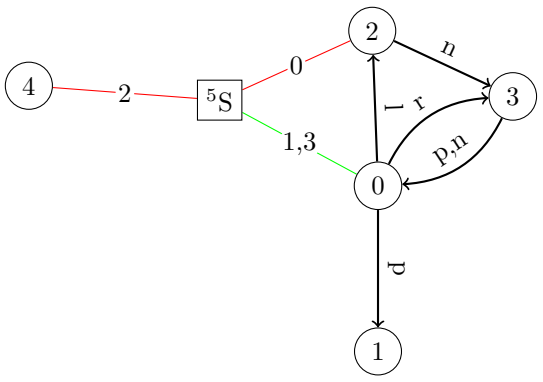
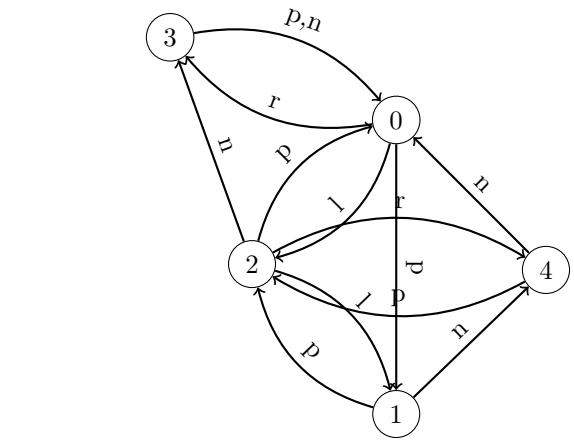
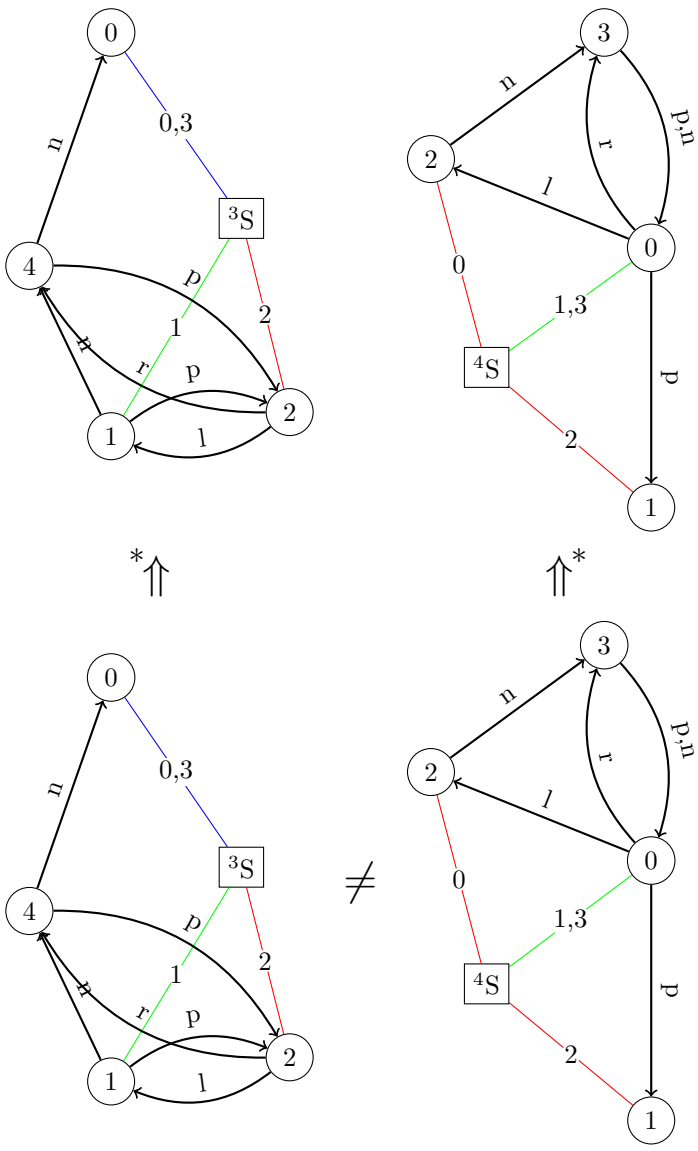


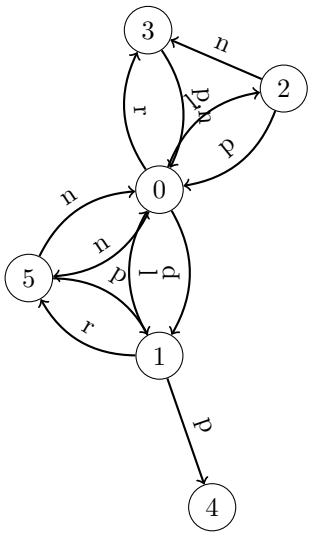
### 1.205 Critical Pair (Not Joinable)



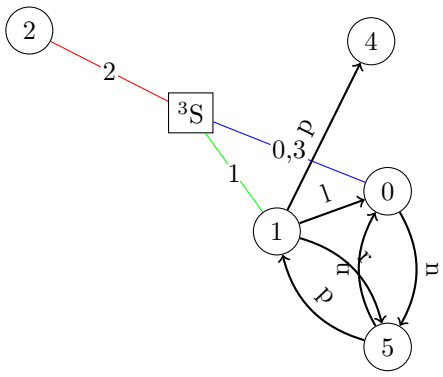

2.7 2.8

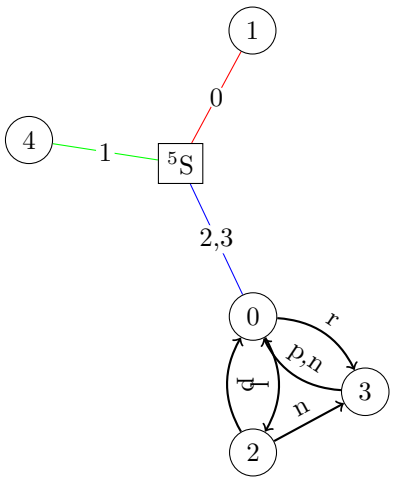


## 1.206 Critical Pair (Not Joinable)




2.7 ⇛ 2.9

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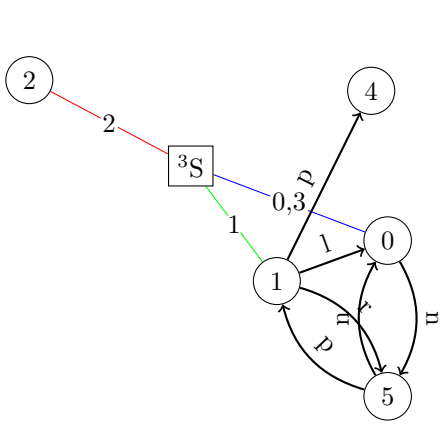


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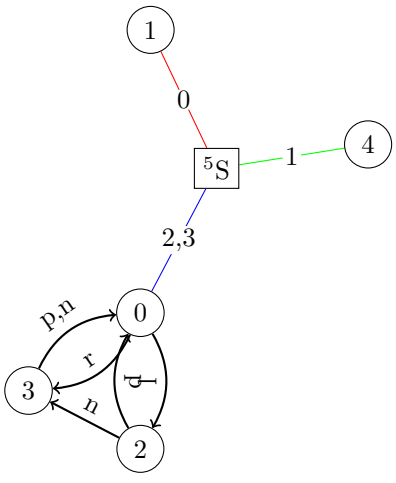
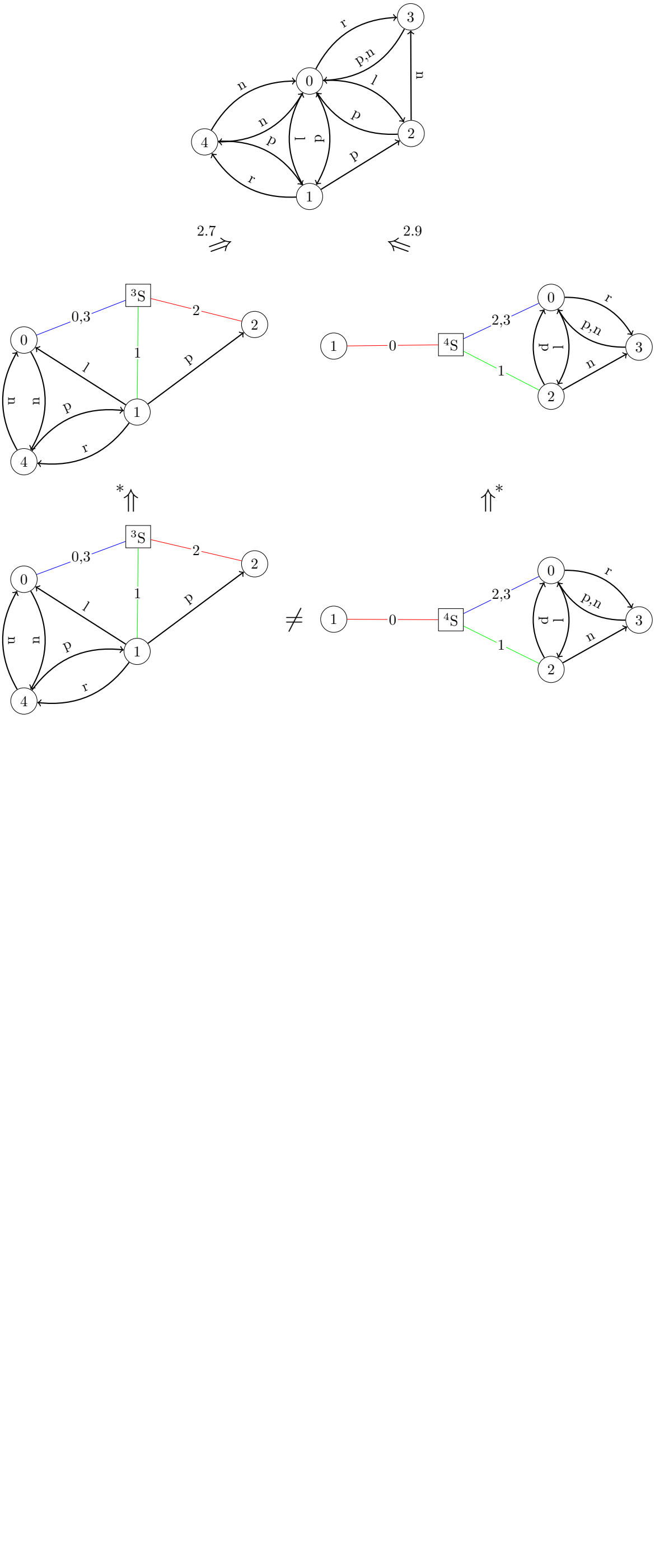
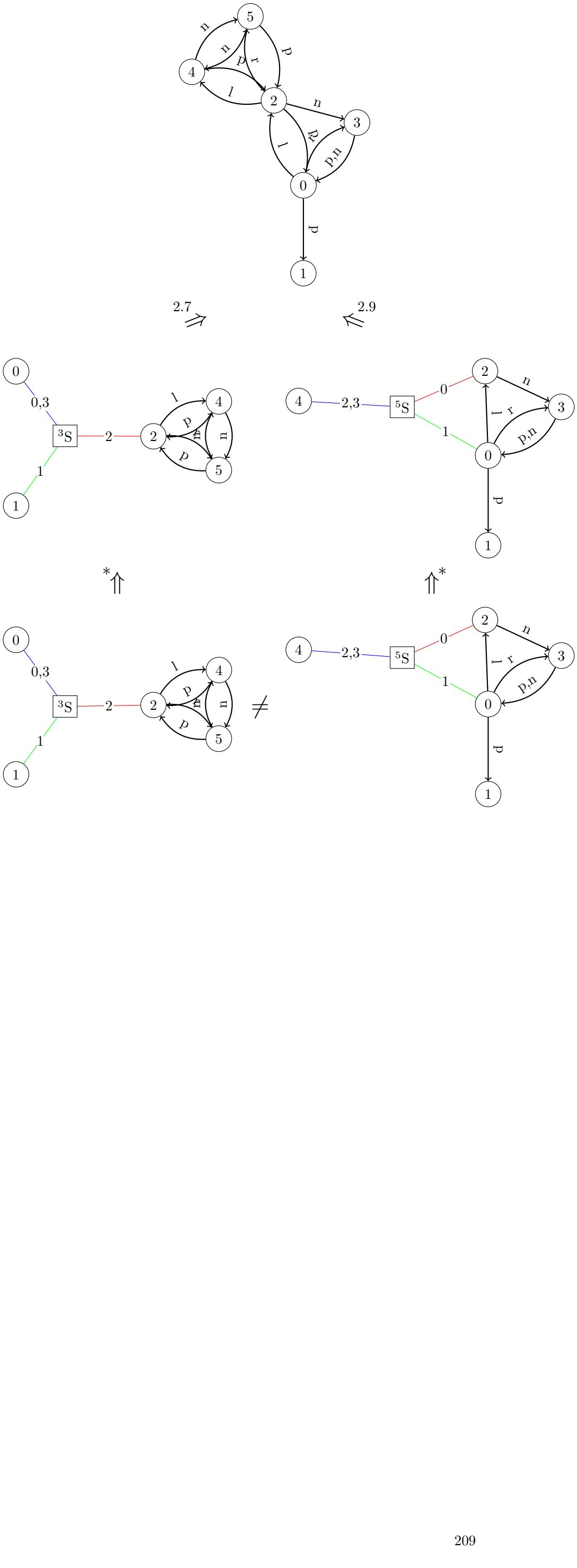


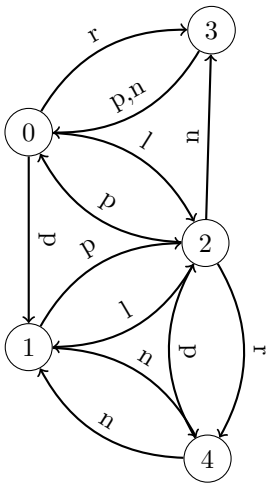
## 1.207 Critical Pair (Not Joinable)



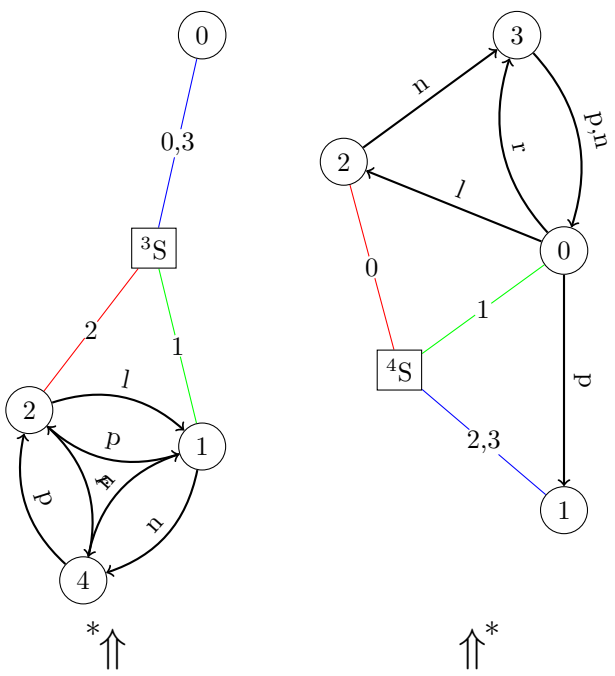
### 1.208 Critical Pair (Not Joinable)

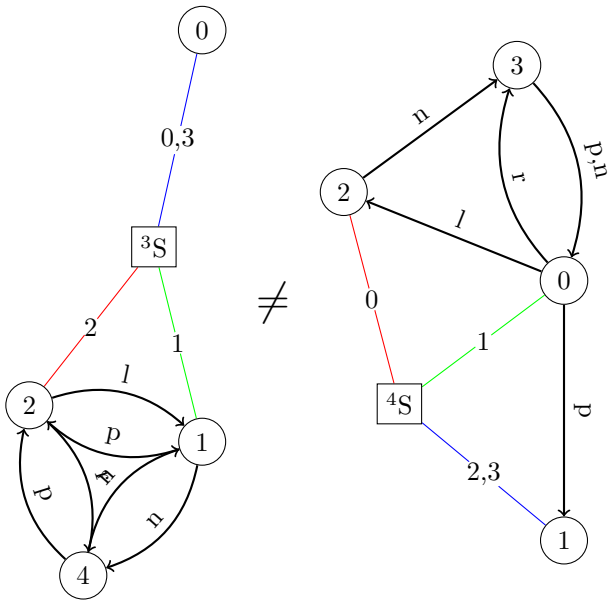


## 1.209 Critical Pair (Not Joinable)

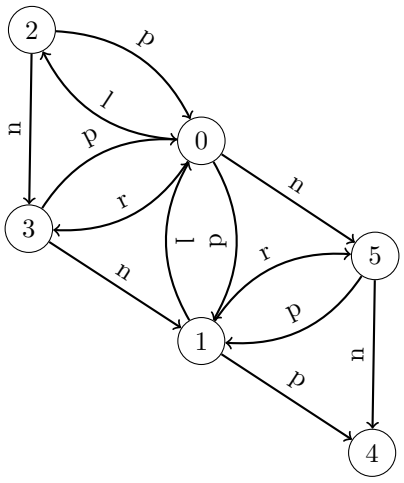



2.7 2.9

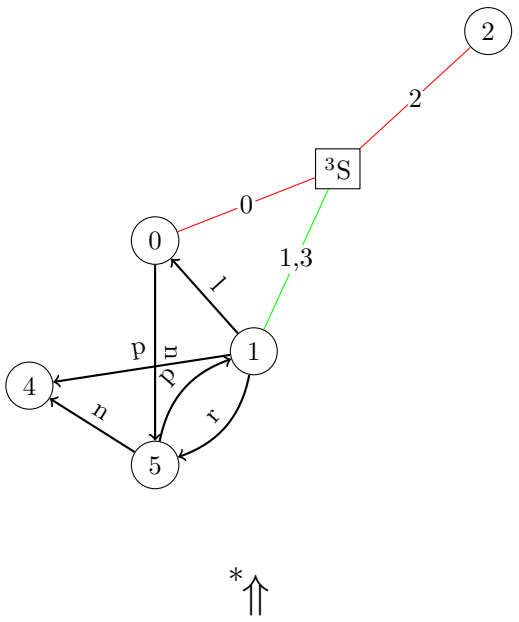


### 1.210 Critical Pair (Not Joinable)




2.8 ⇉ ⇇ 2.8

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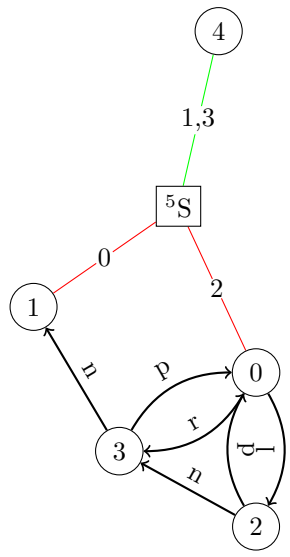


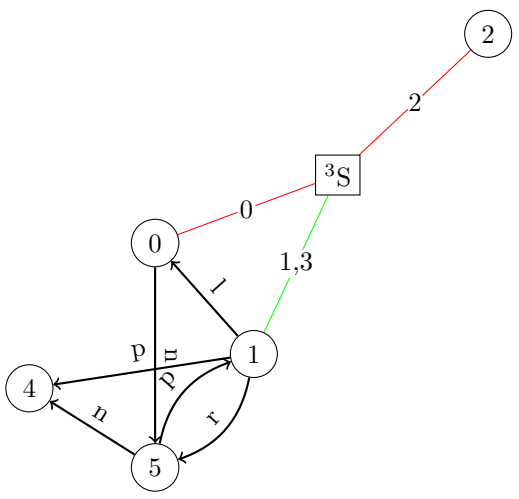


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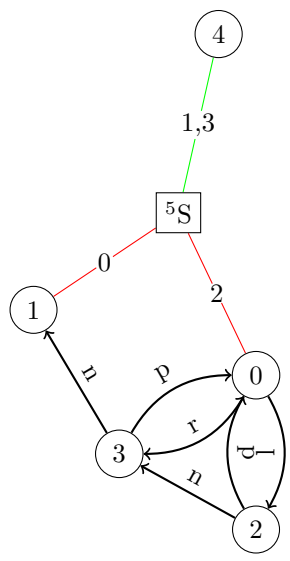
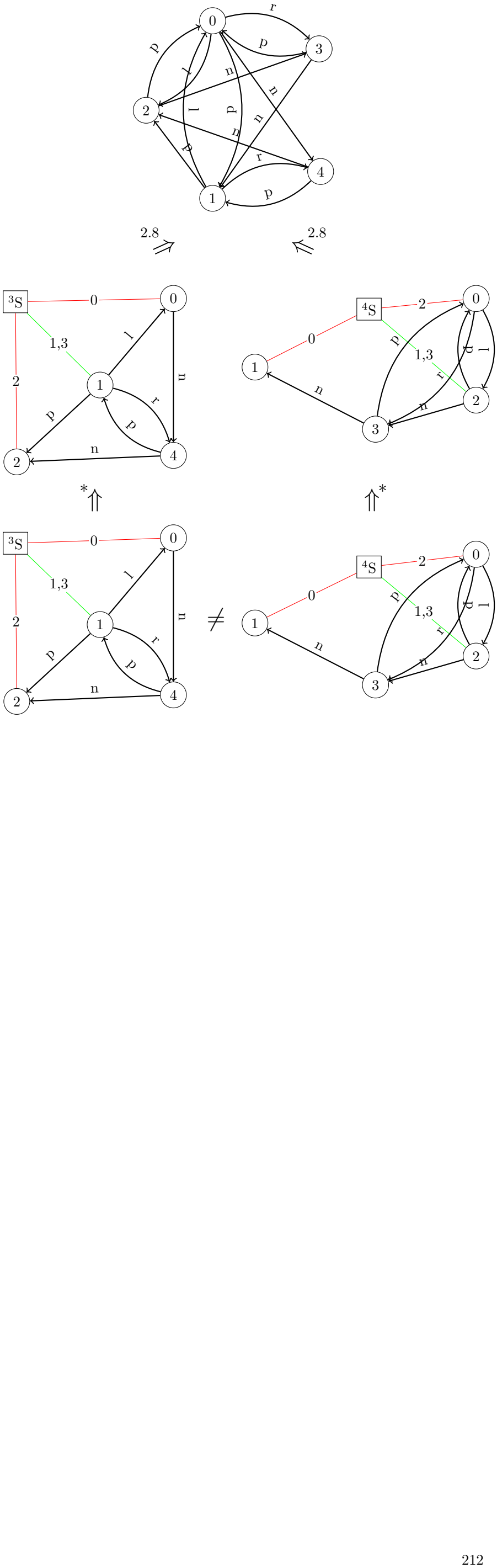


### 1.211 Critical Pair (Not Joinable)



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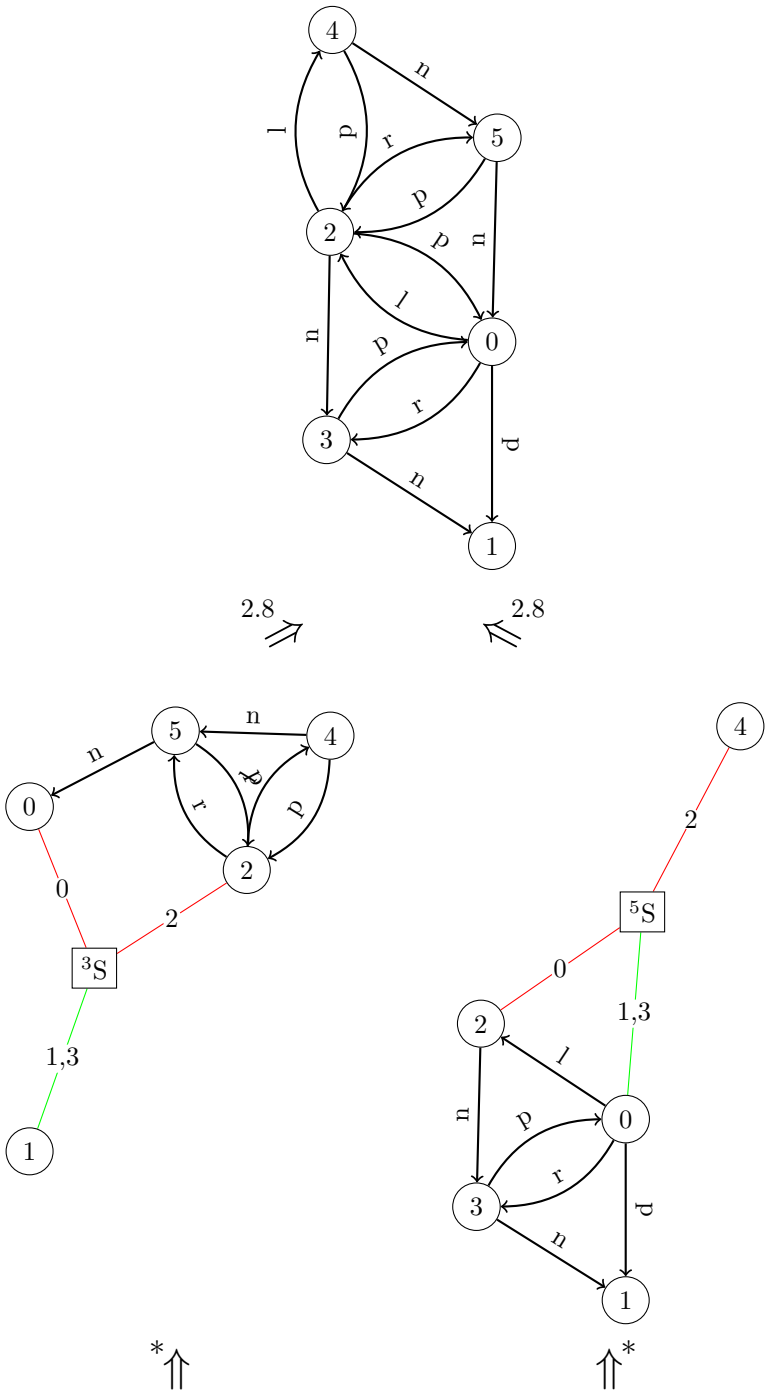
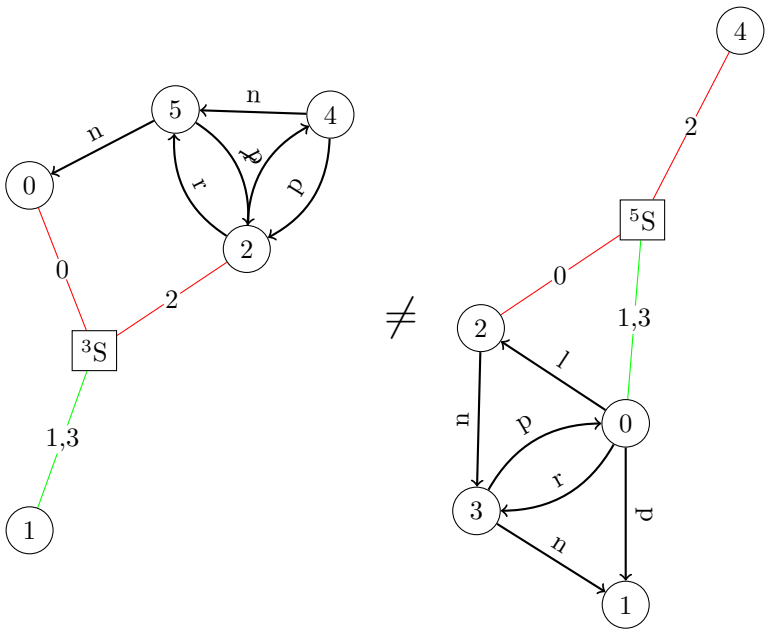
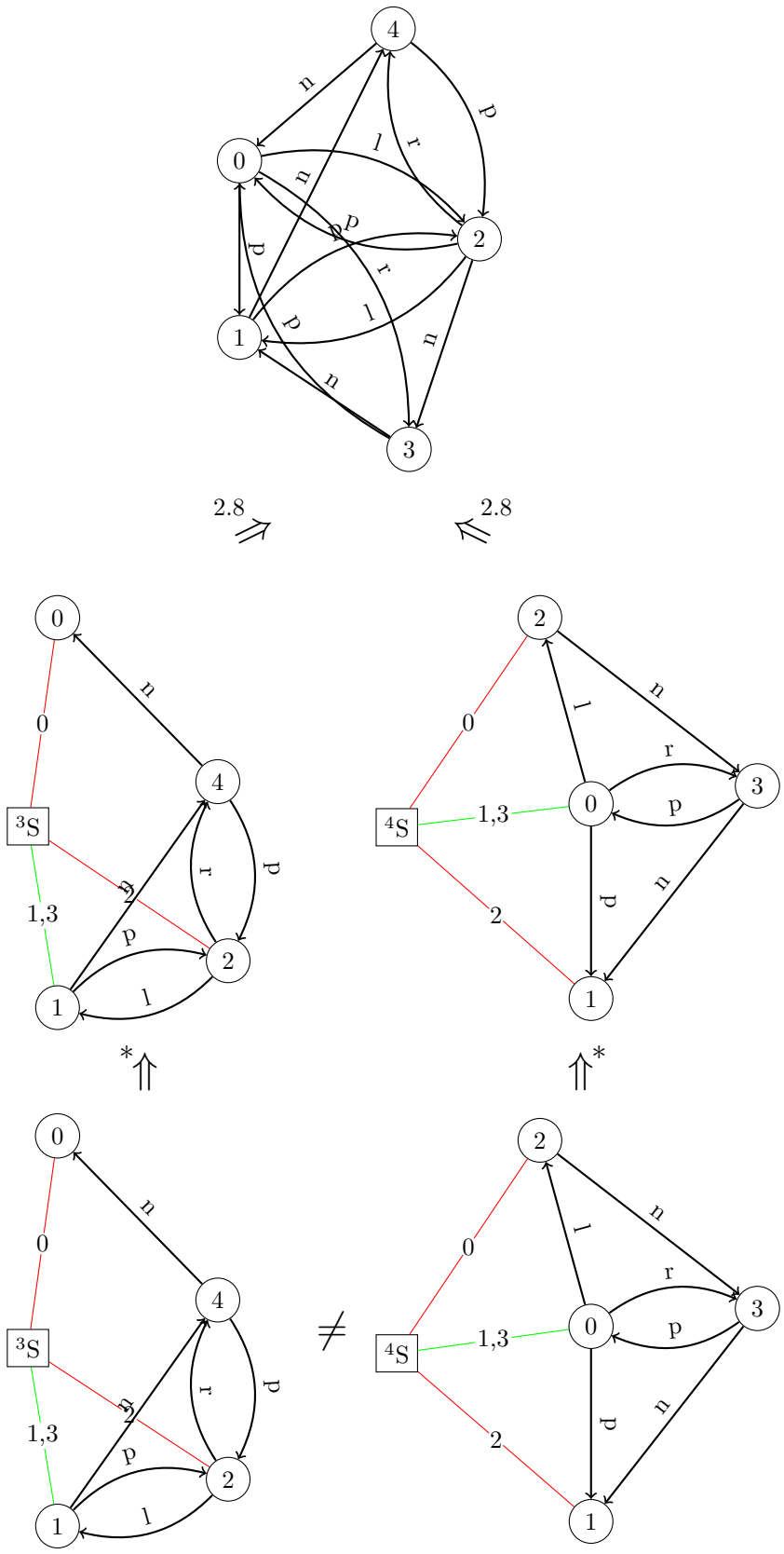


### 1.213 Critical Pair (Not Joinable)



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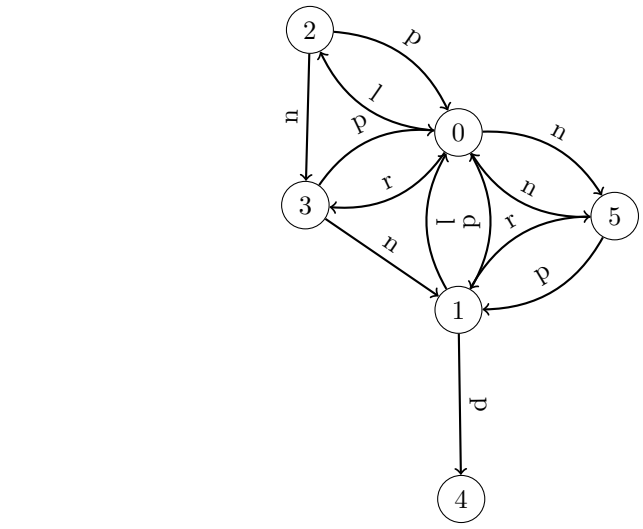
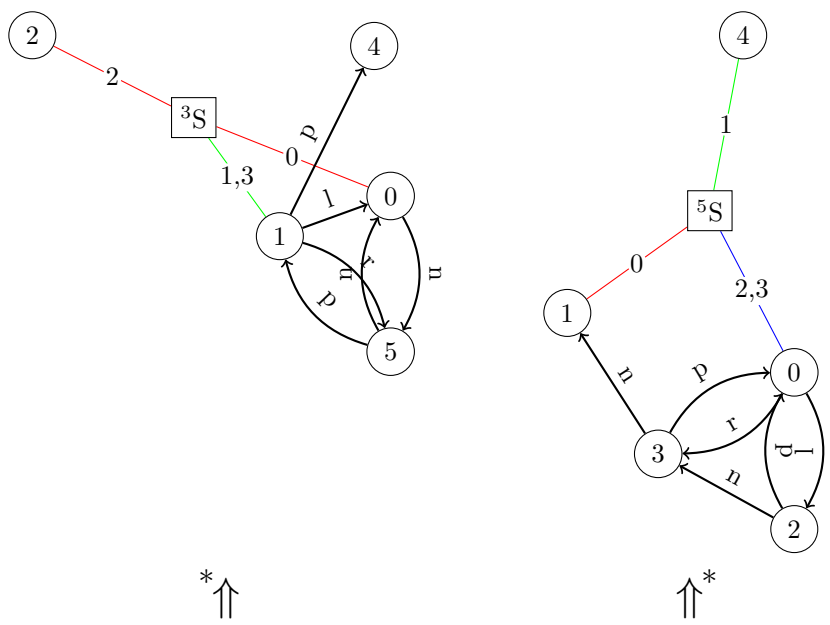



2.8 2.9

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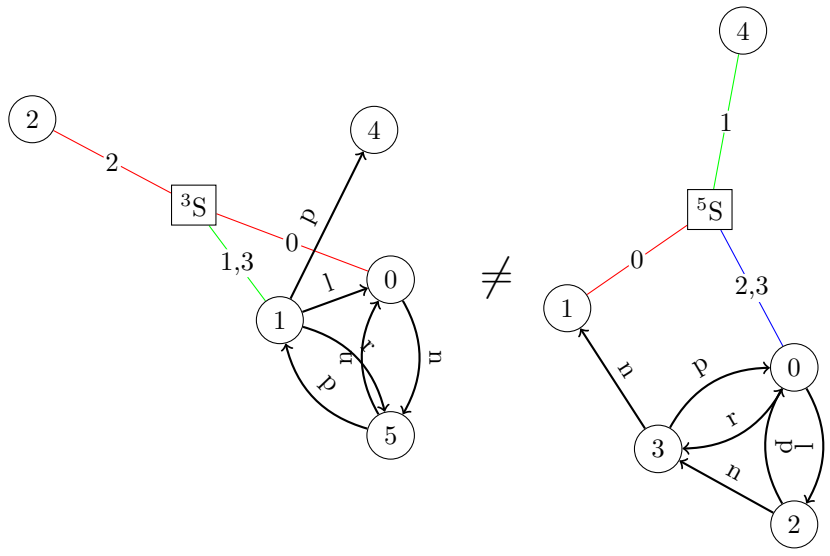
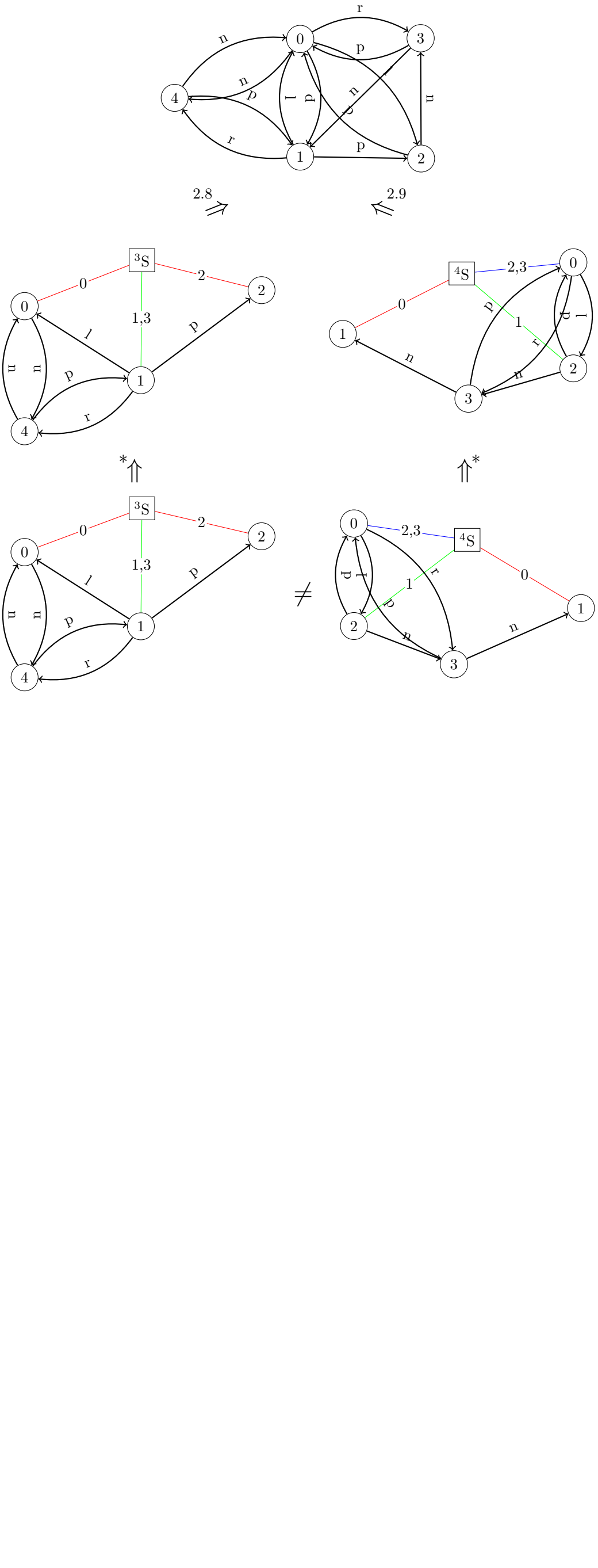


## 1.215 Critical Pair (Not Joinable)



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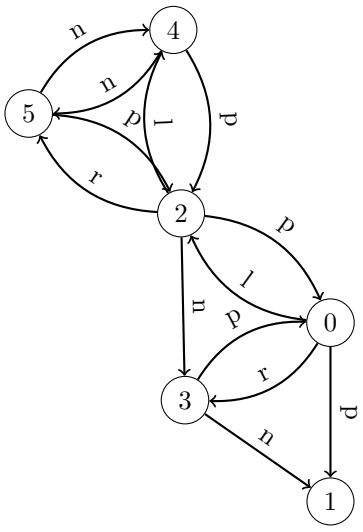
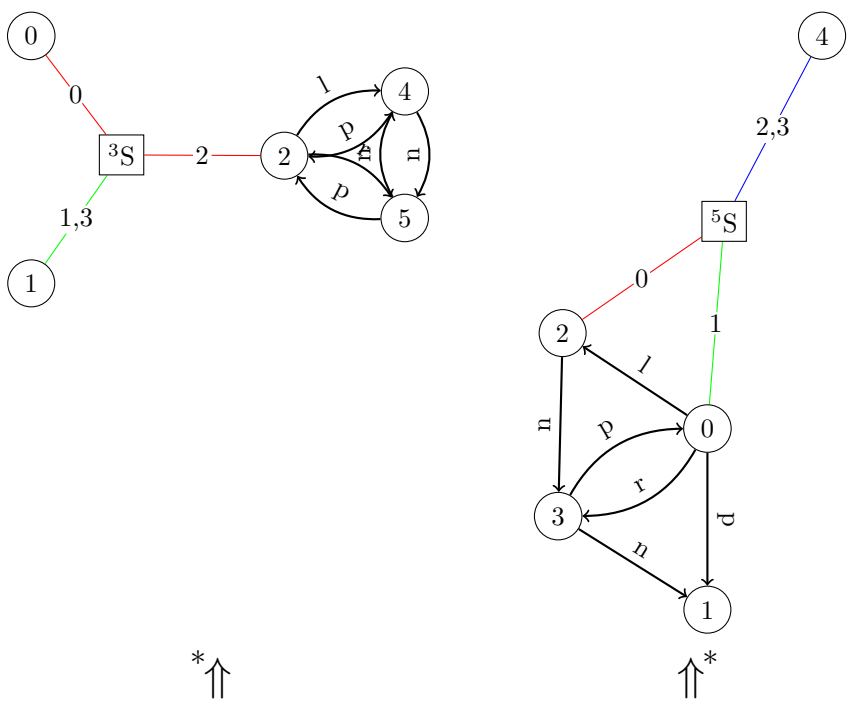



2.8 2.9

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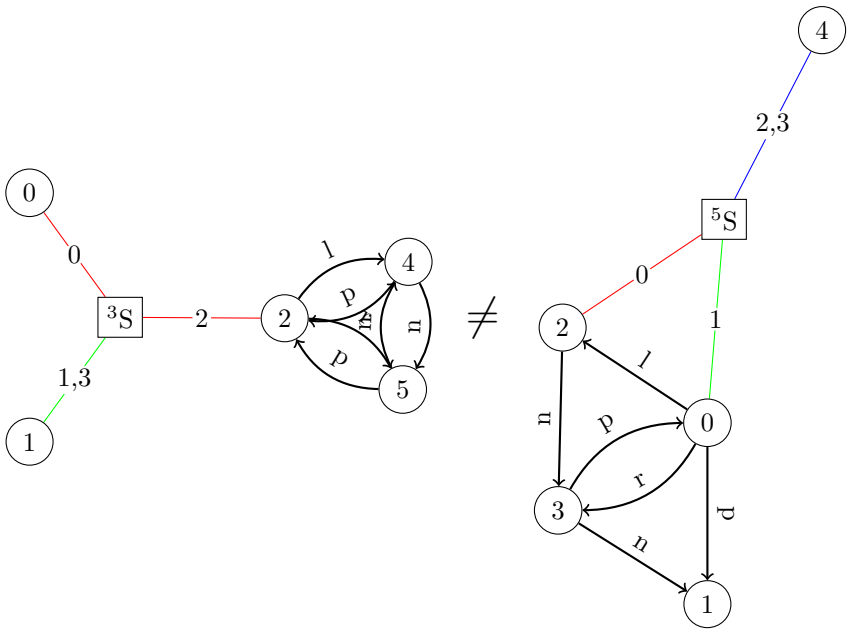
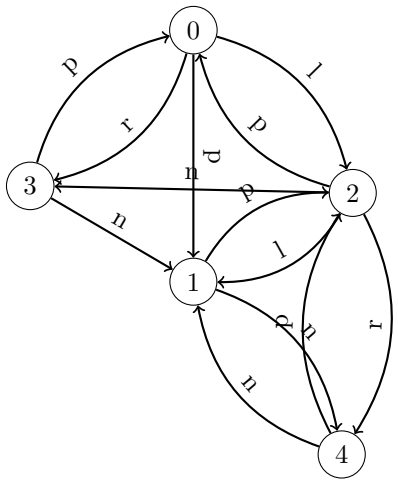
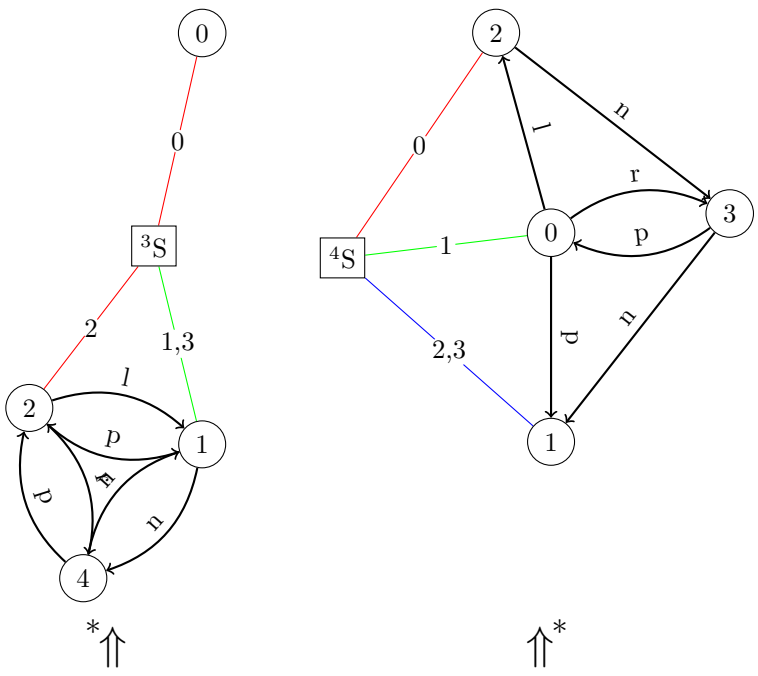
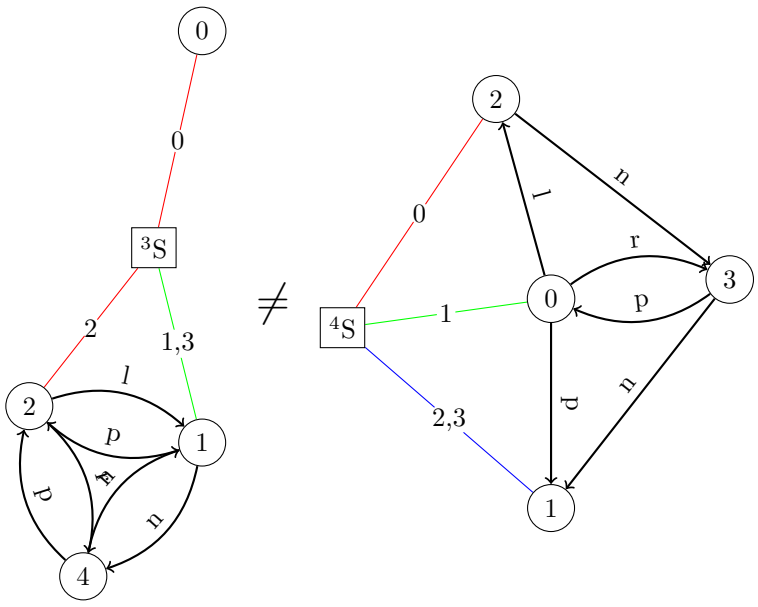


### 1.217 Critical Pair (Not Joinable)

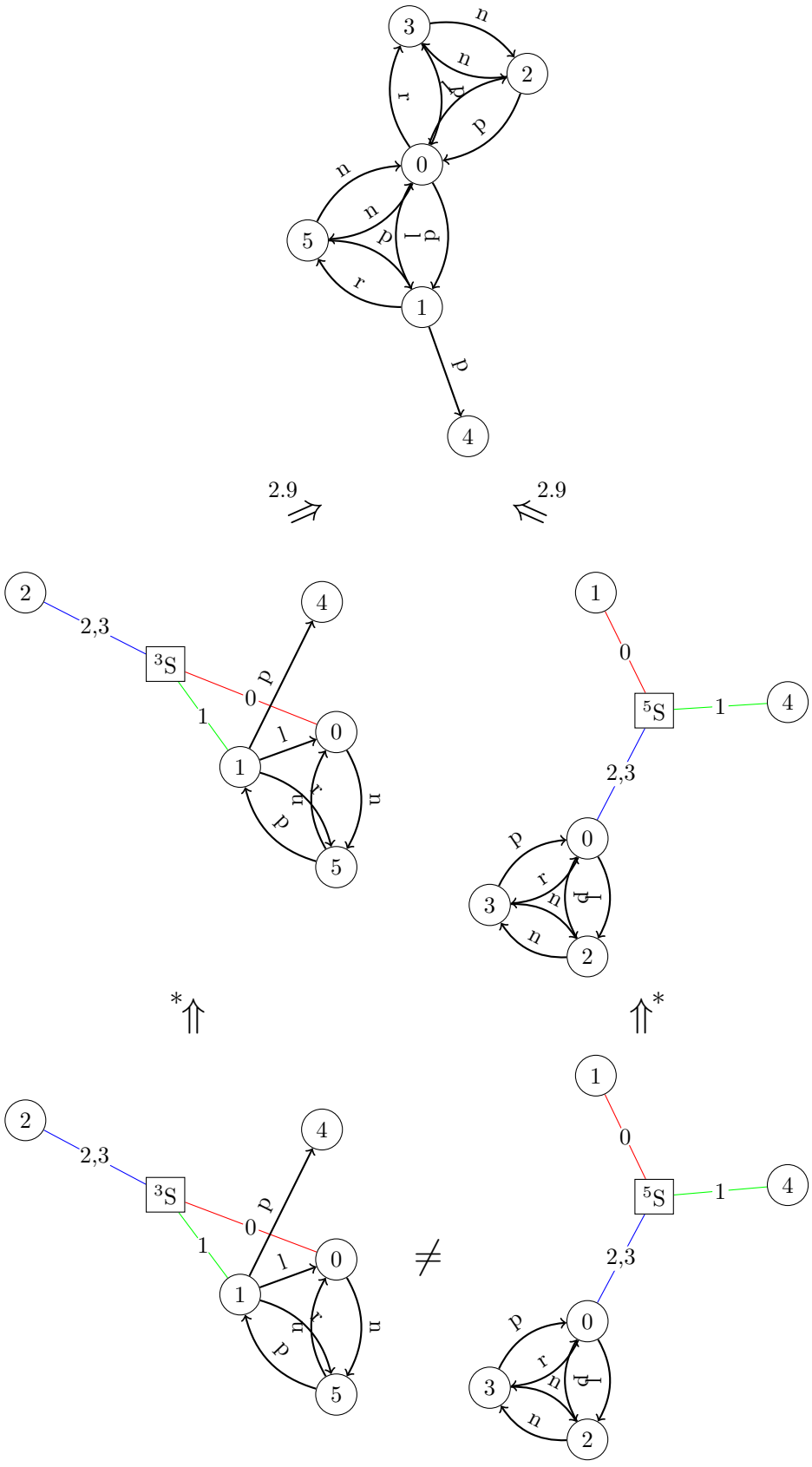



2.8 2.9



## 1.218 Critical Pair (Not Joinable)



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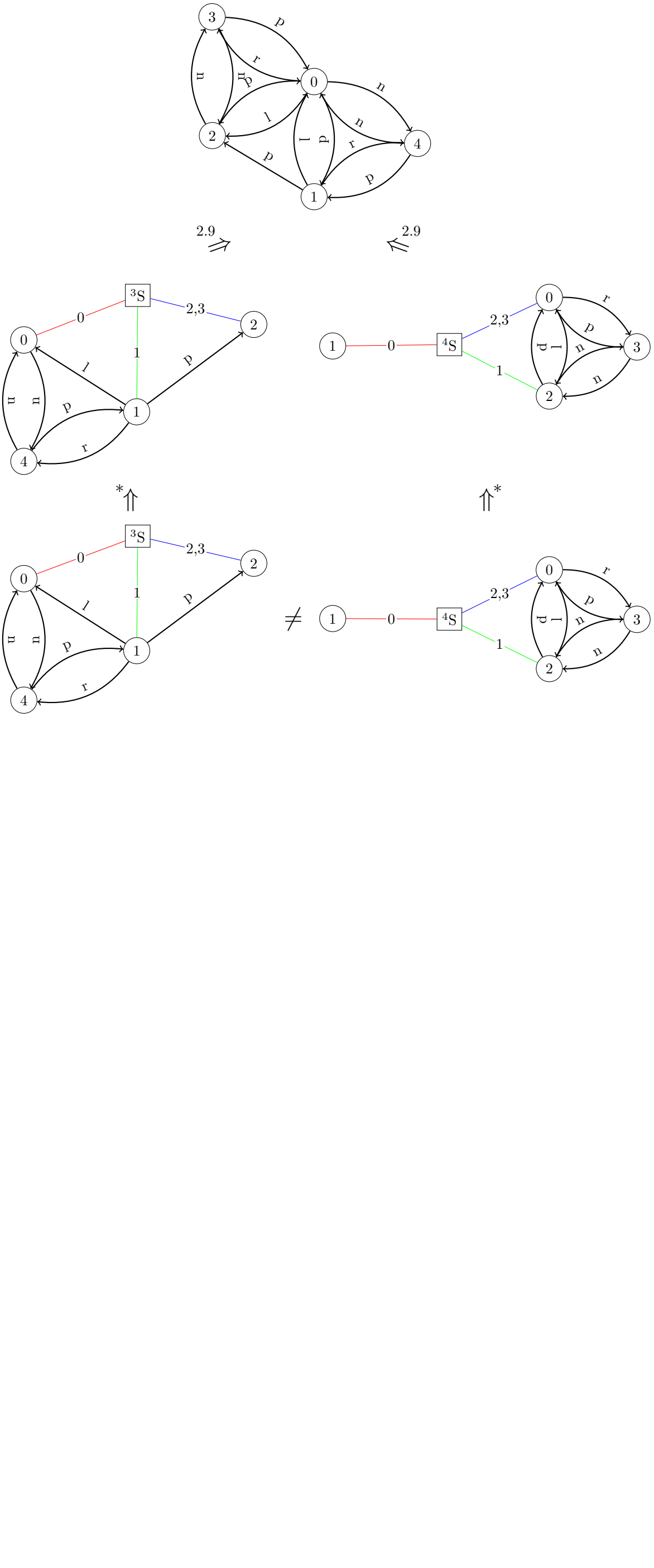
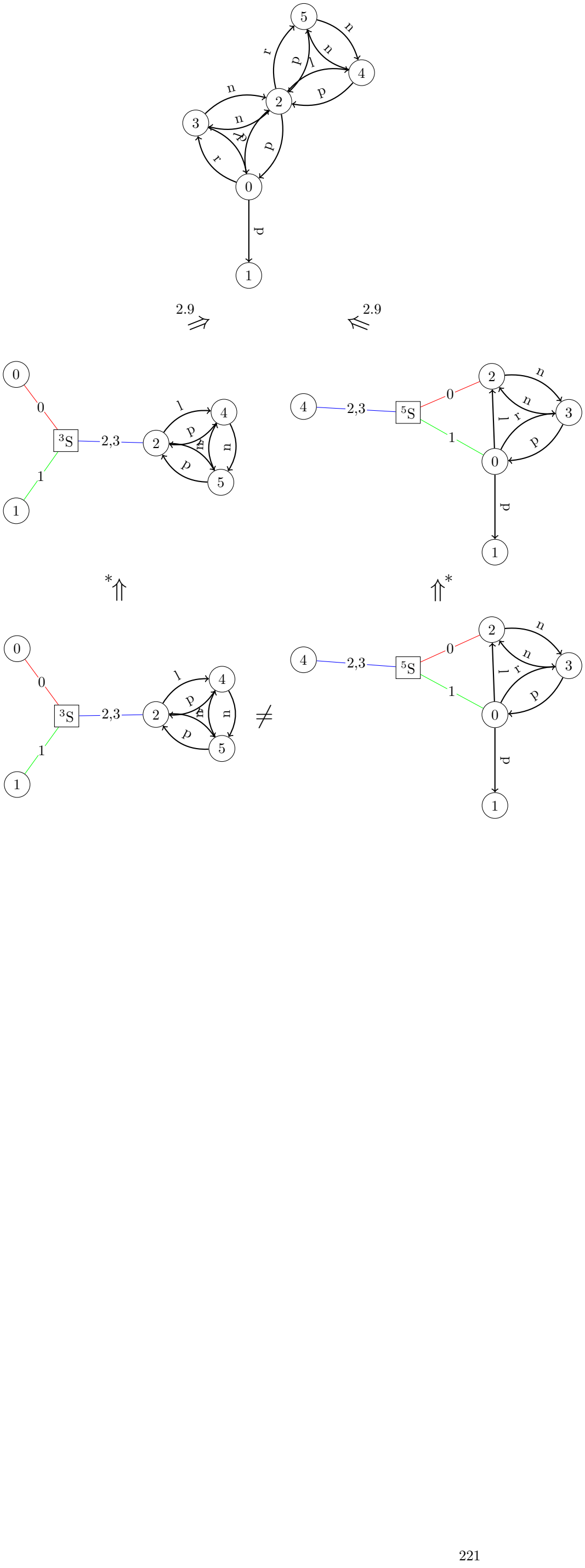
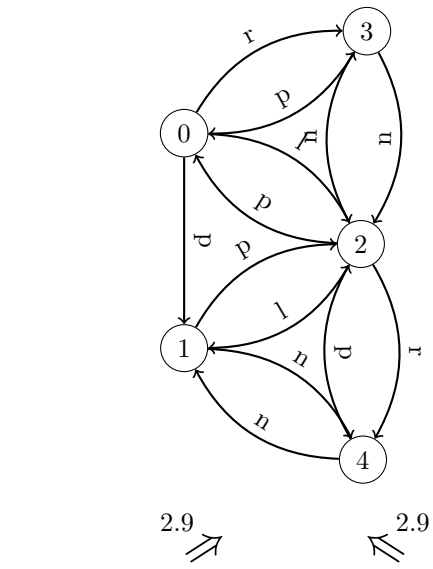
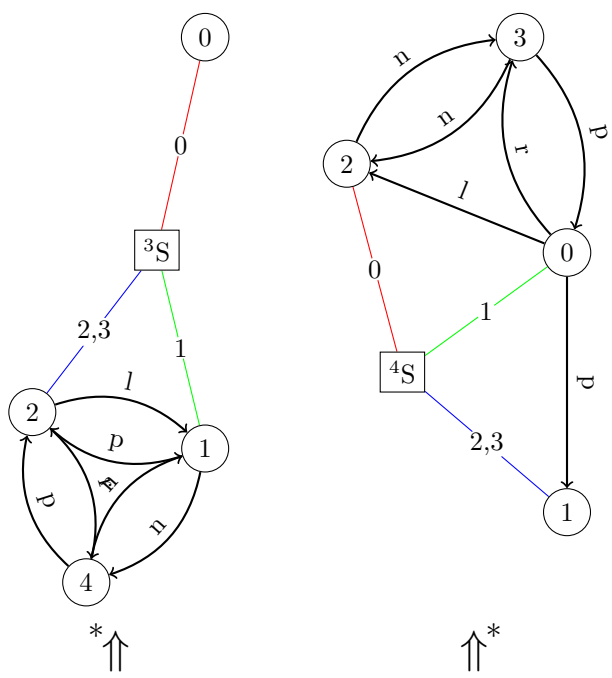
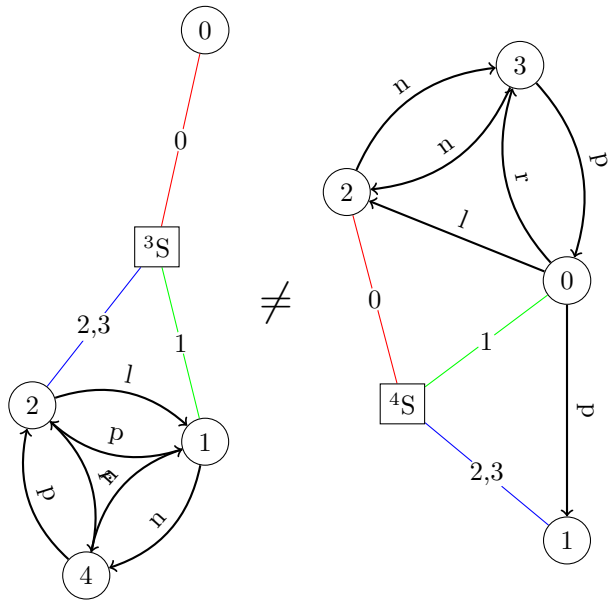


### 1.220 Critical Pair (Not Joinable)



### 1.221 Critical Pair (Not Joinable)