

# Magic Estimation

Magic Value  
Estimation With  
Uncertainty

TS

TS

# Too Small

SL

SL

Value Estimation

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Cannot Assign

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IN

IN

**In-**

**different**

NI

Value Estimation

NI

RE

Cannot Assign

RE

**Reverse**

RE

RE

EX

EX

# Exiter

X $\exists$

X $\exists$

Value Estimation

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MH

MH

Cannot Assign

# Must

# Have

HW

HW

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0

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0

Value Estimation

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0

0

Worst Case

0

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0

Value Estimation

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Worst Case

$1/2$

$1/2$

$1/2$

$1/2$

$1/2$

$\frac{1}{2}$  $\frac{1}{2}$  $\frac{1}{2}$  $\frac{1}{2}$ 

Value Estimation

 $\frac{1}{2}$ **1**

Worst Case

**1****1****1****1**

1

1

1

↓

↓

Value Estimation

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2

2

Worst Case

2

2

2



2

2

2

2

2

Value Estimation

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3

3

Worst Case

3

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3

3

3

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Value Estimation

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5

5

Worst Case

5

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Value Estimation

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8

8

Worst Case

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Value Estimation

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13

Worst Case

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Value Estimation

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20

Worst Case

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Value Estimation

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40

40

Worst Case

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40