

# CFG with Results for if1U

1

$x, y \{(FT)(FF), (FF)(FF) \text{ variety: } x=1 \text{ count: } 1\}$   
 $\{(TT)(TT), (TF)(TT) \text{ variety: } x=1 \text{ count: } 1\}$

2

$x, y \{(FT)(FF), (FF)(FF) \text{ variety: } x=1 \text{ count: } 1\}$   
 $\{(TF)(TT), (TT)(TT) \text{ variety: } x=1 \text{ count: } 1\}$   
 $x = \text{input}()$   
 $x, y \{(FT)(FF), (FF)(FF)\}$   
 $\{(TT)(TT), (TF)(TT)\}$

IF\_IN: x

IF\_IN: not(x)

3

$x, y \{(FT)(FT), (TF)(TT), (TT)(TT), (FF)(FT)\}$   
 $\{\}$   
 $y = \text{True}$   
 $x, y \{(TF), (FF)\}$   
 $\{(FT), (TT)\}$

4

$x, y \{(TF)(TF), (TT)(TF), (FT)(FF), (FF)(FF)\}$   
 $\{\}$   
 $y = \text{False}$   
 $x, y \{(TF), (FF)\}$   
 $\{(FT), (TT)\}$

IF\_OUT

IF\_OUT

5

$x, y \{(TF), (FF)\}$   
 $\{(FT), (TT)\}$   
 $\text{print}(y)$   
 $x, y \{(FT), (TF), (TT), (FF)\}$   
 $\{\}$

6

$x, y \{(TF), (FT), (TT), (FF)\}$   
 $\{\}$