

Main Menu Page:

```
enter '1' to print the RR BDD
enter '2' to print the EVEN BDD
enter '3' to print the PRIME BDD
enter '4' to run test cases on RR, EVEN, and PRIME BDDs
enter '5' to run test cases on RR2
enter '6' to run test cases on quantifier BDD
enter '7' to run all test cases
enter '8' to exit the program
```

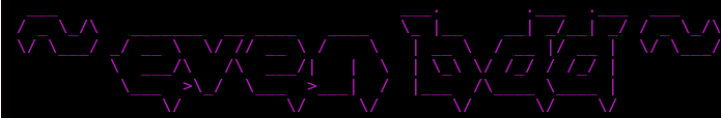
Enter here:

Option One:

[illegible]

```
Press Enter to continue...
```

Option Two:



-y1

Press **Enter** to continue...

Option Three:



$$\text{Or}(\text{And}(x1, \sim x2, \sim x3, \sim x4, x5), \text{And}(x1, \sim x2, x3, \sim x4, \sim x5), \text{And}(x1, \sim x2, x3, x4), \text{And}(x1, x2, \sim x3, \sim x4), \text{And}(x1, x2, \sim x3, x4, \sim x5), \text{And}(x1, x2, x3, \sim x4), \text{And}(x1, x2, x3, x4, x5))$$

Press **Enter** to continue...

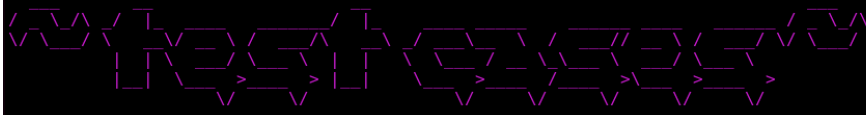
#### Option Four:



```
RR(27, 03) -----> is true    (expected)
RR(16, 20) -----> is false   (expected)
EVEN(14)  -----> is true    (expected)
EVEN(13)  -----> is false   (expected)
PRIME(7)   -----> is true    (expected)
PRIME(2)   -----> is false   (expected)

Press Enter to continue...
```

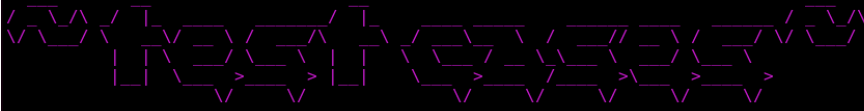
#### Option Five:



```
RR2(27, 06) -----> is true    (expected)
RR2(27, 09) -----> is false   (expected)

Press Enter to continue...
```

## Option Six:



$\forall u, (\text{PRIME}(u) \rightarrow \exists v, (\text{EVEN}(v) \wedge \text{RR2star}(u, v)))$  Evaluates to: 1

Press **Enter** to continue...

## Option Seven:



RR(27, 03) -----> **is true** (expected)  
RR(16, 20) -----> **is false** (expected)  
EVEN(14) -----> **is true** (expected)  
EVEN(13) -----> **is false** (expected)  
PRIME(7) -----> **is true** (expected)  
PRIME(2) -----> **is false** (expected)  
RR2(27, 06) -----> **is true** (expected)  
RR2(27, 09) -----> **is false** (expected)  
 $\forall u, (\text{PRIME}(u) \rightarrow \exists v, (\text{EVEN}(v) \wedge \text{RR2star}(u, v)))$  Evaluates to: 1

Press **Enter** to continue...