

```
1 module Main (main) where
2
3 import Data.Word
```

```

4  import Test.HUnit
5
6  -- | Convert a non-negative integer number into a String providing a
7  --    binary representation of the number.
8  dtob :: Word -> String
9  dtob _ = undefined
10
11 -- | Convert a String representing a non-negative integer number as a
12 --    binary number into a non-negative integer number.
13 btod :: String -> Word
14 btod _ = undefined
15
16 -- Below are some test cases...
17
18 dtobTests = TestList [ dtob 0 ~?= "0"
19                        , dtob 1 ~?= "1"
20                        , dtob 2 ~?= "10"
21                        , dtob 127 ~?= "1111111"
22                        , dtob 12345 ~?= "11000000111001"
23                        ]
24
25 btodTests = TestList [ btod "0" ~?= 0
26                      , btod "1" ~?= 1
27                      , btod "10" ~?= 2
28                      , btod "1111111" ~?= 127
29                      , btod "11000000111001" ~?= 12345
30                      ]
31
32 main = runTestTT $ TestList [ dtobTests, btodTests ]

```