```
The input with 2 accepting state:
    5
    2
    3
    4
    2
    DN
    10
    0,
        N,
             1
             2
    0,
         D,
        N,
             2
    1,
             3
    1,
        D,
    2,
         N,
             3
             4
    2,
        D,
    3,
             1
        N,
             2
    3,
        D,
    4,
        D,
             1
    4,
         D,
             2
    NNN
```

The outcome1:

```
0,
                  1
         Ν,
0,
         D,
                  2
2
3
1,
         N,
1,
         D,
2,
                  3
         N,
2,
         D,
3,
         N,
                  1
3,
                  2
         D,
4,
         D,
                  1
4,
NNN
                  2
         D,
0 N 1 N 2 N 3
Accepted
- : unit = ()
```

Outcome 2 with different input to DFA:

1 top # Simulate_dra testext

5
2
3
4 2 DN 10 0, N, 1 D, 2 0, 1, 2 Ν, 1, 3 D, N, 3 2, 2, 4 D, 1 3, Ν, D, 2 3, 1 4, D, 4, 2 D, Ν 0 N 1

Invalid number of states:

Rejected

```
DN
10
0,N,1
1,
                  2
         N,
1,
                  3
         D,
                  3
2,
         Ν,
2,
                  4
         D,
3,
                  1
         Ν,
                  2
3,
         D,
4,
         D,
                  1
4,
                  2
         D,
NND
Exception: Failure "Invalid argument: transition case".
```

Invalid number of accepting state:

```
utop # simulate_dfa "tc5.txt";;
3
3
4
2
DN
Exception: Failure "int_of_string".
```

Invalid number of symbols:

```
2
4
2
Exception: Failure "number of symbols mismatched with that of alphabet".
```

```
10
0,N,1
0,
     D,
Exception: Failure "Invalid state".
```

Invalid symbol:

```
5
2
3
4
2
DN
10
0,N,1
                   2
3
3
4
0,
         D,
1,
         N,
1,
         D,
2,
         N,
Exception: Failure "Invalid symbol".
```

Invalid format of input:

Meets the expected flexibility of input:

```
utop # Simulate_ura (Co.txt
5
2
3
4
2
DN
10
0,N,1
0,
        D,2
        N,
                 2
1,
                 3
1,
         D,
                 3
2,
        N,
                 4
2,
         D,
                 1
3,
         Ν,
3,D,
         2
4,
         D,
                 1
                 2
         D,
4,
NNDDNN
0 N 1 N 2 D 4 D 1 N 2 N 3
Accepted
```

Works correctly with default input with space character:

```
1 1 1 4 abc 7 1,b,1 1,a,1 0,b,0 0,a,1 1,c,0 0,,0 1, ,1 bba aca 0 b 0 b 0 a 1 1 a 1 c 0 a 1 Accepted
```

Testing the reading and parsing separately:

```
- : string list = ["D"; "N"; "N"; "N"]
-(17:01:25)-< command 57 >
utop # !alphabet;;
- : string list = ["D"; "N"]
-( 17:01:25 )-< command 58 >
utop # !a
Interrupted.
-( 17:01:25 )-< command 58 >
utop # !transition_cases;;
- : string list list =
[["0"; "N"; "1"]; ["0"; "D"; "2"]; ["1"; "N"; "2"]; ["1"; "D"; "3"]; ["2"; "N"; "3"]; ["2"; "D"; "4"]; ["3"; "N"; "1"]; ["3"; "D"; "2"]; ["4"; "D"; "1"]; ["4"; "D"; "2"]]
-( 17:01:25 )-< command 59 >
utop # !input_to_dfa;;
-: string list = ["D"; "N"; "N"; "N"]
-( 17:01:57 )-< command 60 >
utop # !alphabet;;
-: string list = ["D"; "N"]
-( 17:01:57 )-< command 61 >
```