Accept Cases:

1. String: 0011

```
$ python3 traceNTM_ekoran.py test-files/check_a_plus_ekoran.csv aaaa 100
Nondeterministic Turing Machine Info:
    Machine Name: a+
          States: q1, q2, q3
           Sigma: a
           Gamma: a, _
     Start State: q1
    Accept State: q3
    Reject State: qreject
Input String: aaaa
Transitions Simulated: 12
String accepted in 5 steps:
     q1 aaaa_
    a q1 aaa_
    aa q1 aa_
    aaa q1 a_
    aaaa q2 _
    aaa q3 a_
Degree of Nondeterminism: 2.1666666666666665
Nondeterminism Summary:
    Level     # Configs     # Outgoing Transitions     # NonLeaves     Transitions/NonLeaves
       0            1                          2              1                       2.0
       1            2                          3              2                       1.5
       2            3                          3              2                       1.5
       3            3                          3              2                       1.5
       4            3                          1              1                       1.0
       5            1                          0              0                         0
```

2. String: 0101

```
$ python3 traceNTM_ekoran.py test-files/check_equal_01s_ekoran.csv 0101 100
Nondeterministic Turing Machine Info:
    Machine Name: {w | w has the same number of 0's and 1's} Nondeterministic
          States: q0, q1, q2, q3, q4, q5, qacc, qrej
           Sigma: 0, 1
           Gamma: 0, 1, _
     Start State: q0
    Accept State: qacc
    Reject State: qrej
Input String: 0101
Transitions Simulated: 20
String accepted in 13 steps:
     q0 0101_
    _ q1 101_
     q3 _x01_
    _ q4 x01_
    _x q4 01_
    _xx q1 1_
    _x q3 xx_
    _ q3 xxx_
     q3 _xxx_
    _ q5 xxx_
    _x q5 xx_
    _xx q5 x_
    _xxx q5 _
    _xxx_ qacc
Degree of Nondeterminism: 1.5
Nondeterminism Summary:
    Level     # Configs     # Outgoing Transitions     # NonLeaves     Transitions/NonLeaves
       0            1                          1              1                       1.0
       1            1                          1              1                       1.0
       2            1                          2              1                       2.0
       3            2                          2              2                       1.0
       4            2                          1              1                       1.0
       5            1                          1              1                       1.0
       6            1                          1              1                       1.0
       7            1                          1              1                       1.0
       8            1                          2              1                       2.0
       9            2                          2              2                       1.0
      10            2                          2              2                       1.0
      11            2                          2              2                       1.0
      12            2                          2              2                       1.0
      13            2                          0              1                       0.0
```

Reject Cases:

1. String: 00011

```
$ python3 traceNTM_ekoran.py test-files/check_equal_01s_ekoran.csv 00011 100
Nondeterministic Turing Machine Info:
    Machine Name: {w | w has the same number of 0's and 1's} Nondeterministic
          States: q0, q1, q2, q3, q4, q5, qacc, qrej
           Sigma: 0, 1
           Gamma: 0, 1, _
     Start State: q0
    Accept State: qacc
    Reject State: qrej
Input String: 00011
Transitions Simulated: 23
String rejected in 20 steps
Degree of Nondeterminism: 1.15
```

2. String: 101

```
$ python3 traceNTM_ekoran.py test-files/check_equal_01s_ekoran.csv 101 100
Nondeterministic Turing Machine Info:
    Machine Name: {w | w has the same number of 0's and 1's} Nondeterministic
          States: q0, q1, q2, q3, q4, q5, qacc, qrej
           Sigma: 0, 1
           Gamma: 0, 1, _
     Start State: q0
    Accept State: qacc
    Reject State: qrej
Input String: 101
Transitions Simulated: 8
String rejected in 6 steps
Degree of Nondeterminism: 1.3333333333333333
```