*Step 0*Assign Rank for 1 length string:

**Position** **Rank** **String**

0 1 mississippi

1 0 ississippi

2 3 ssissippi

3 3 sissippi

4 0 issippi

5 3 ssippi

6 3 sippi

7 0 ippi

8 2 ppi

9 2 pi

10 0 i

*Step 1*Assign tuple for 2 length string:

**tuple0**   **tuple1** **String**

1 0 mississippi

0 3 ississippi

3 3 ssissippi

3 0 sissippi

0 3 issippi

3 3 ssippi

3 0 sippi

0 2 ippi

2 2 ppi

2 0 pi

0 -1 i

After sorting assign new rank for 2 length string:  
 **Position** **Rank** **String**

10 0 i

7 1 ippi

1 2 ississippi

4 2 issippi

0 3 mississippi

9 4 pi

8 5 ppi

3 6 sissippi

6 6 sippi

2 7 ssissippi

5 7 ssippi

*Step 2*

Assign tuple for 4 length string:

**tuple0**   **tuple1** **String**

3 7 mississippi

2 6 ississippi

7 2 ssissippi

6 7 sissippi

2 6 issippi

7 1 ssippi

6 5 sippi

1 4 ippi

5 0 ppi

4 -1 pi

0 -1 i

After sorting assing new rank for 4 length string  
 **Position** **Rank** **String**

10 0 i

7 1 ippi

1 2 ississippi

4 2 issippi

0 3 mississippi

9 4 pi

8 5 ppi

6 6 sippi

3 7 sissippi

5 8 ssippi

2 9 ssissippi

Step 3

Assign tuple for 8 length string:

**tuple0**   **tuple1** **String**

3 2 mississippi

2 8 ississippi

9 6 ssissippi

7 1 sissippi

2 5 issippi

8 4 ssippi

6 0 sippi

1 -1 ippi

5 -1 ppi

4 -1 pi

0 -1 i

After sorting assing new rank for 8 length string

**Position** **Rank** **String**

10 0 i

7 1 ippi

4 2 issippi

1 3 ississippi

0 4 mississippi

9 5 pi

8 6 ppi

6 7 sippi

3 8 sissippi

5 9 ssippi

2 10 ssissippi

*Step 4*

Assign tuple for 16 length string:

**tuple0**   **tuple1** **String**

4 6 mississippi

3 5 ississippi

10 0 ssissippi

8 -1 sissippi

2 -1 issippi

9 -1 ssippi

7 -1 sippi

1 -1 ippi

6 -1 ppi

5 -1 pi

0 -1 i

Suffix Array :

**Position** **String**

10 i

7 ippi

4 issippi

1 ississippi

0 mississippi

9 pi

8 ppi

6 sippi

3 sissippi

5 ssippi

2 ssissippi