

# (M) Minimum Spelling Trees (1/2)

**M1.** (" (+H +a +u +s ->  
 "Haus" (+e +s ->  
 "Häuses" (-a +ä -s +r ->  
 "Häuser" (+n ->  
 "Häusern")))) Cost: 11

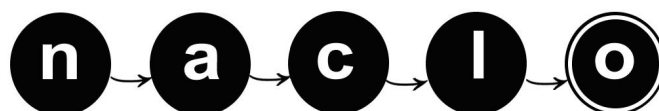
**M2.** (" (+H +a +u +s ->  
 "Haus" (+e ->  
 "Hause" (+s ->  
 "Häuses")  
 (-a +ä +r ->  
 "Häuser" (+n ->  
 "Häusern")))) Cost: 10

**M3.7**

(" (+H +a +u +s +e ->  
 "Hause" (-e ->  
 "Haus")  
 (+s ->  
 "Häuses")  
 (-a +ä +r ->  
 "Häuser" (+n ->  
 "Häusern")))) Cost: 11

(" (+H +a +u +s ->  
 "Haus" (+e ->  
 "Hause" (+s ->  
 "Häuses")  
 (-a +ä +r +n ->  
 "Häusern" (-n ->  
 "Häuser")))) Cost: 11

(" (+H +a +u +s ->  
 "Haus" (+e ->  
 "Hause" (+s ->  
 "Häuses" (-a +ä -s +r ->  
 "Häuser" (+n ->  
 "Häusern")))) Cost: 11



# (M) Minimum Spelling Trees (2/2)

```
( "" (+H +a +u +s ->
      "Haus" (+e +s ->
              "Haus es" )
              (+e ->
              "Hause " )
              (-a +ä +r ->
              "Häuser "(+n ->
              "Häuser n")))))
```

Cost: 11

```
( "" (+H +a +u +s ->
      "Haus" (+e +s ->
              "Haus es" (-s ->
              "Hause " )
              (-a +ä +r ->
              "Häuser "(+n ->
              "Häuser n"))))))
```

Cost: 11

```
( "" (+H +a +u +s ->
      "Haus" (-a +ä +e +r ->
              "Häuser "(+n ->
              "Häuser n"))
      (+e ->
      "Hause " (+s ->
      "Haus es")))))
```

Cost: 11

The seventh MST is the cost 10 tree from **M2**.

**M4.** Haus is encoded from Häuser n and all other words are encoded from "", for a cost of  $5 + 5 + 6 + 6 + 7 = 29$

