Spanning Tree Algorithm

1. Root Bridge Election (Note: **a lower number wins**)
   1. (Priority: 0 – 61440 ) + (System id extension = VAN number)
      1. Default priority = 32,768
      2. Note: the possible priority value can be checked by issuing a command such as:

S1 (config): spanning-tree vlan 10 priority ?

* + 1. A priority must be in increments of 4096
       1. Note: you can check it by issuing a command such as”

S1 (config) do show span

* 1. MAC address

**<<Port Role>>**

**Root port:** closest to the root bridge

**Designated port**

**Non-designated port**

<<Port Status>>

Forward

Block