

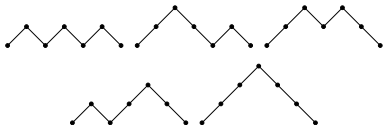
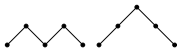
Combinatorics, statistics, and FindStat

Viviane Pons, Universität Wien

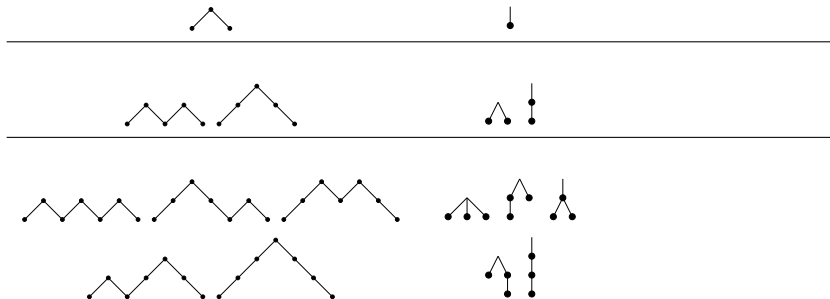
UC Davis

November 13, 2013

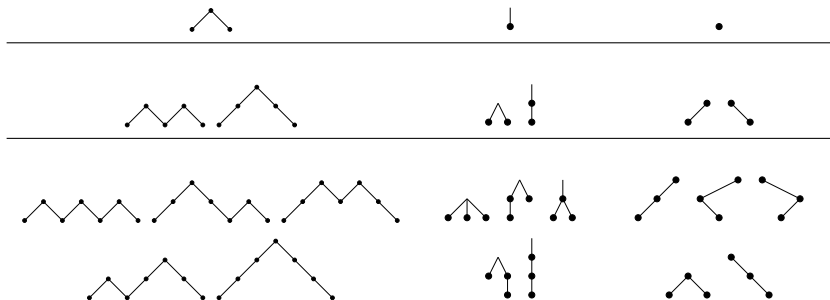
Combinatorial objects and bijections



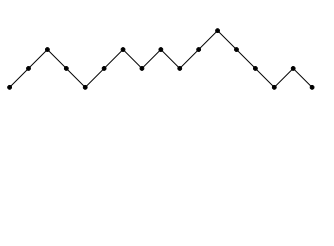
Combinatorial objects and bijections



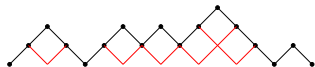
Combinatorial objects and bijections



Combinatorial statistics



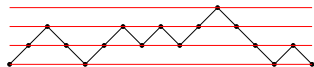
Combinatorial statistics



Area = 6



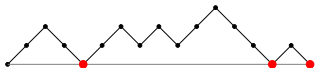
Combinatorial statistics



Area = 6
Height = 3



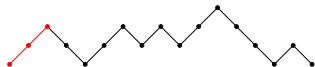
Combinatorial statistics



Area = 6
Height = 3
Touch points = 3



Combinatorial statistics



$$\text{Area} = 6$$

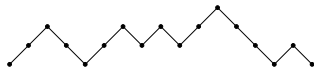
$$\text{Height} = 3$$

$$\text{Touch points} = 3$$

$$\text{Initial rise} = 2$$



Combinatorial statistics



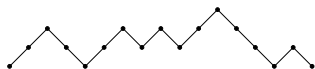
Area = 6
Height = 3
Touch points = 3
Initial rise = 2



Height = 3



Combinatorial statistics



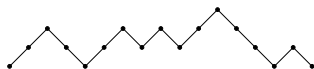
Area = 6
Height = 3
Touch points = 3
Initial rise = 2



Height = 3
Leaves = 5



Combinatorial statistics



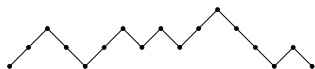
Area = 6
Height = 3
Touch points = 3
Initial rise = 2



Height = 3
Leaves = 5
Internal nodes = 3



Combinatorial statistics



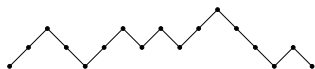
Area = 6
Height = 3
Touch points = 3
Initial rise = 2



Height = 3
Leaves = 5
Internal nodes = 3
Root subtrees = 3



Combinatorial statistics



Area = 6
Height = 3
Touch points = 3
Initial rise = 2

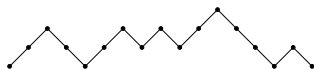


Height = 3
Leaves = 5
Internal nodes = 3
Root subtrees = 3



Right subtree = 3

Combinatorial statistics



Area = 6
 Height = 3
 Touch points = 3
 Initial rise = 2

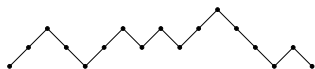


Height = 3
 Leaves = 5
 Internal nodes = 3
 Root subtrees = 3



Right subtree = 3
 No right subtree = 5

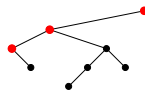
Combinatorial statistics



Area = 6
Height = 3
Touch points = 3
Initial rise = 2

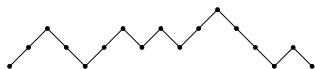


Height = 3
Leaves = 5
Internal nodes = 3
Root subtrees = 3



Right subtree = 3
No right subtree = 5
Left branch = 3

Combinatorial statistics



Area = 6
Height = 3
Touch points = 3
Initial rise = 2

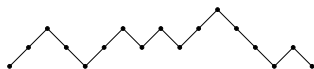


Height = 3
Leaves = 5
Internal nodes = 3
Root subtrees = 3



Right subtree = 3
No right subtree = 5
Left branch = 3

Combinatorial statistics







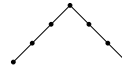





Area = 6
Height = 3
Touch points = 3
Initial rise = 2

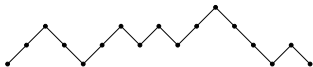


Height = 3
Leaves = 5
Internal nodes = 3
Root subtrees = 3



Right subtree = 3
No right subtree = 5
Left branch = 3

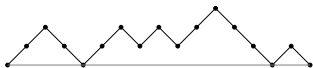
					
Touch points	3	2	1	2	1
Height	1	2	2	2	3
<hr/>					
					
Root subtrees	3	2	1	2	1
Height	1	2	2	2	3



Touch points = 3
Height = 3



Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



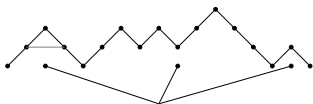
Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



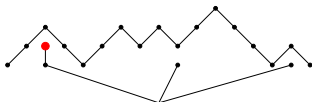
Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



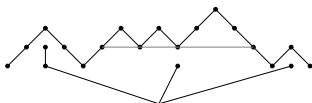
Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



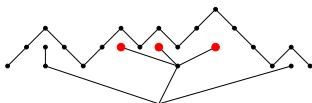
Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



Root subtrees = 3
Height = 3



Touch points = 3
Height = 3



Root subtrees = 3
Height = 3