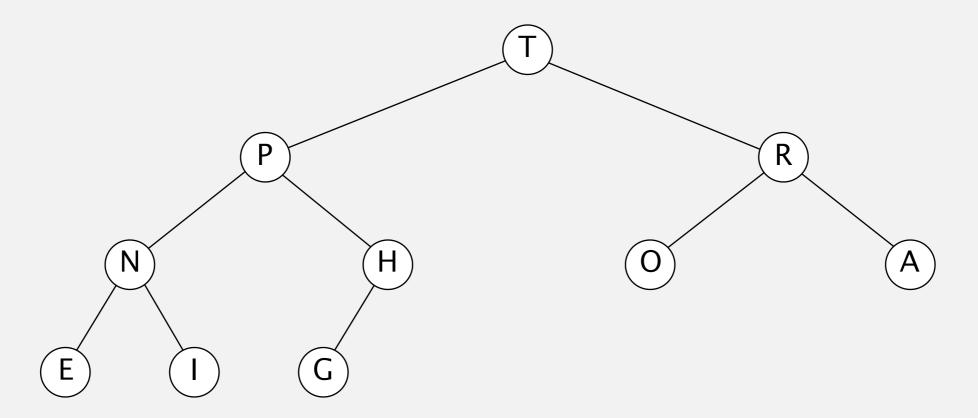


Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

## heap ordered

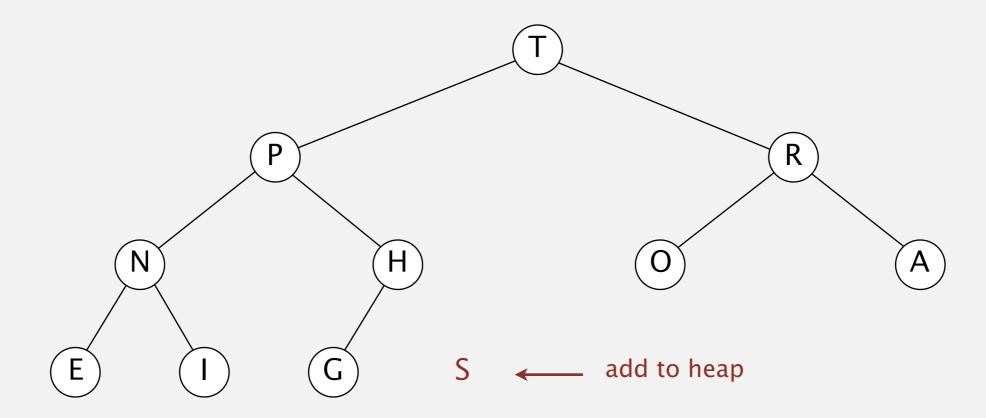


T P R N H O A E I G

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

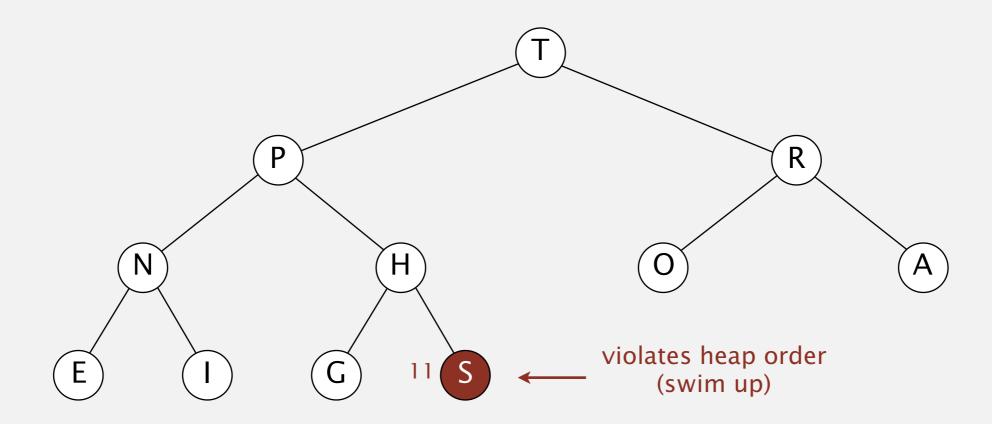
### insert S



T P R N H O A E I G

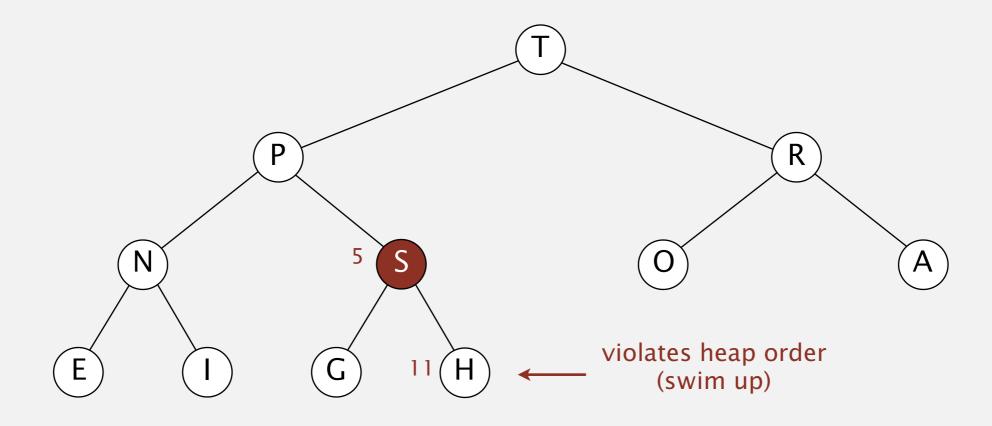
Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.



Insert. Add node at end, then swim it up.

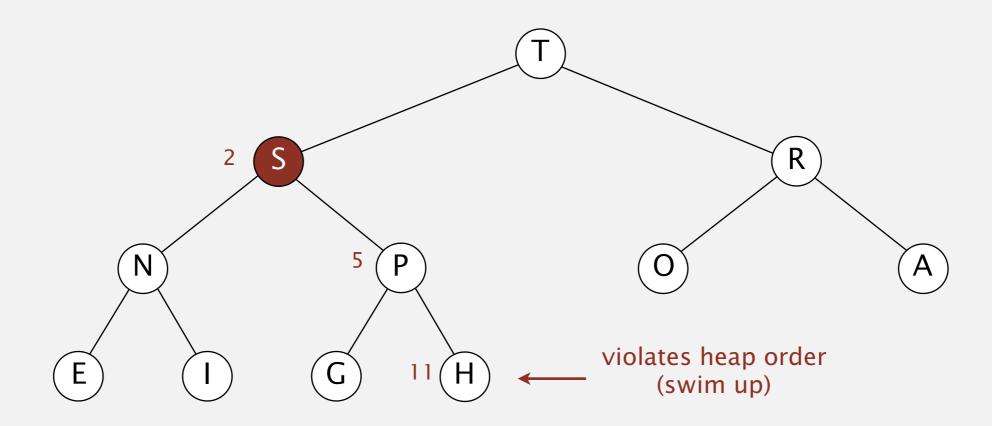
Remove the maximum. Exchange root with node at end, then sink it down.





Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

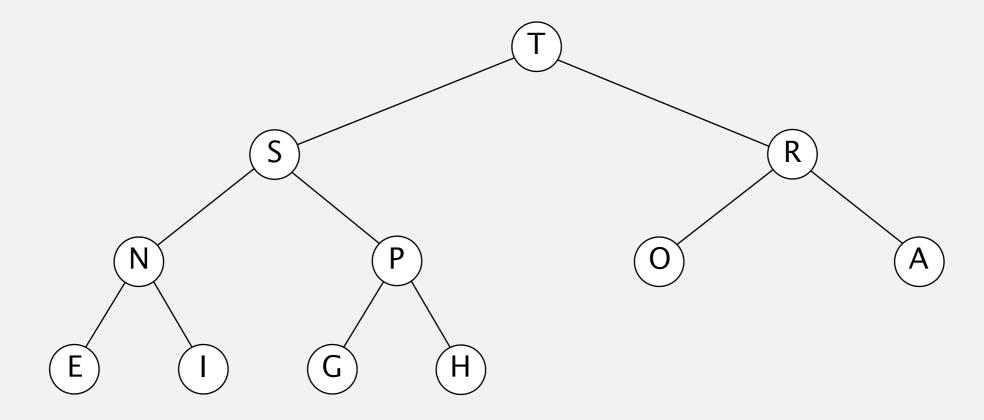




Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

## heap ordered

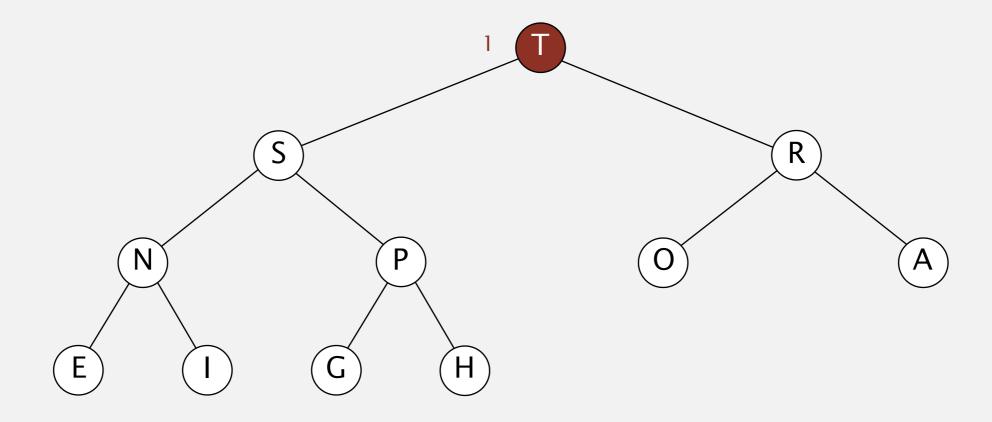


T S R N P O A E I G H

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

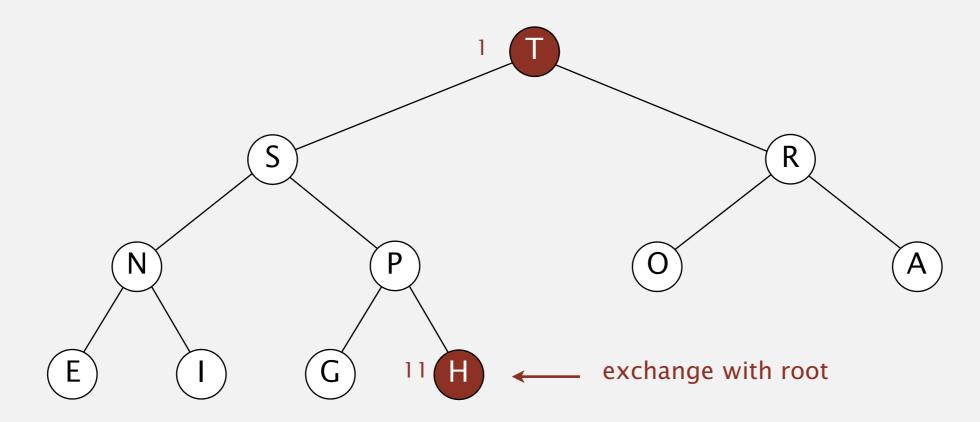
### remove the maximum



T S R N P O A E I G H

Insert. Add node at end, then swim it up.

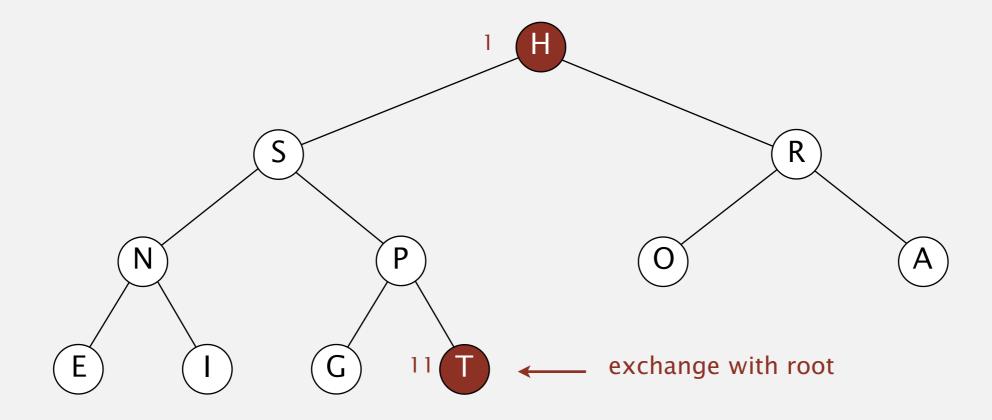
Remove the maximum. Exchange root with node at end, then sink it down.



Т	S	R	N	Р	0	А	E	I	G	Н
1										11

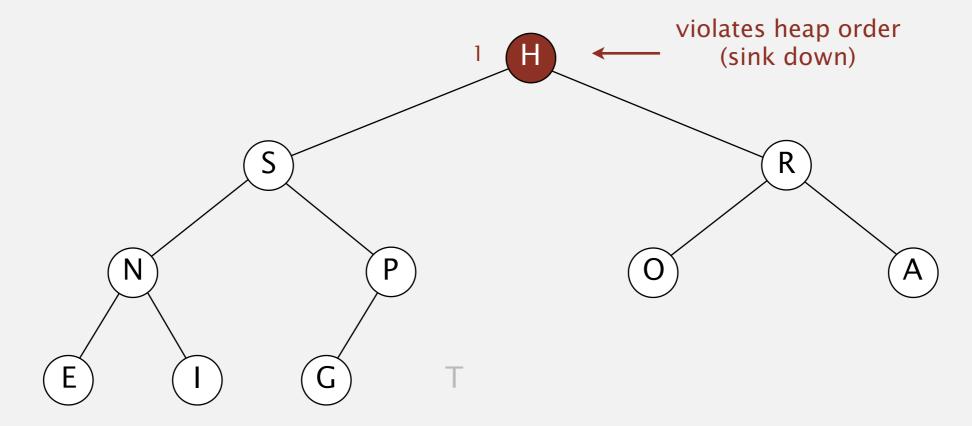
Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.



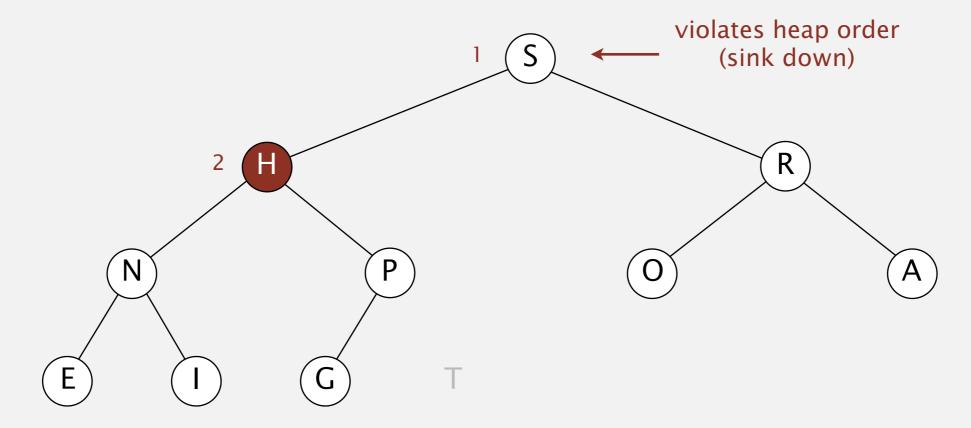
Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.



Insert. Add node at end, then swim it up.

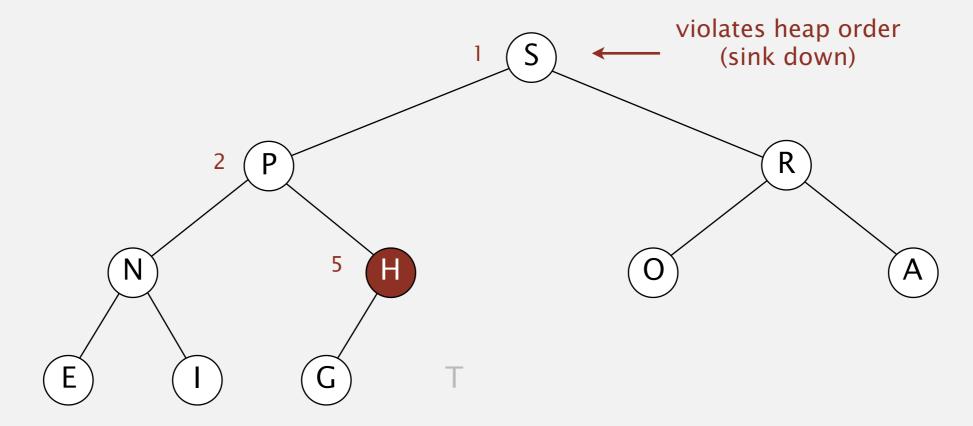
Remove the maximum. Exchange root with node at end, then sink it down.



S	Н	R	N	Р	0	Α	Е	ı	G	Т
1	2									

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

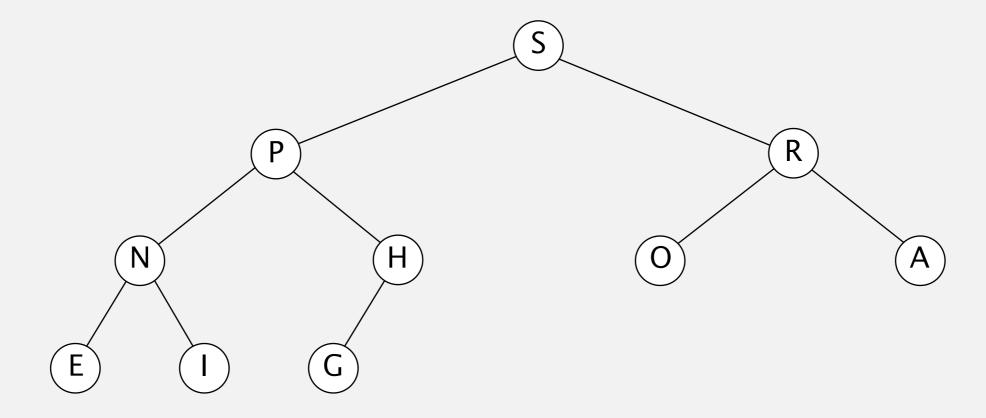


S	Р	R	N	Н	0	А	Е	1	G	Т
1	2			5						

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

## heap ordered

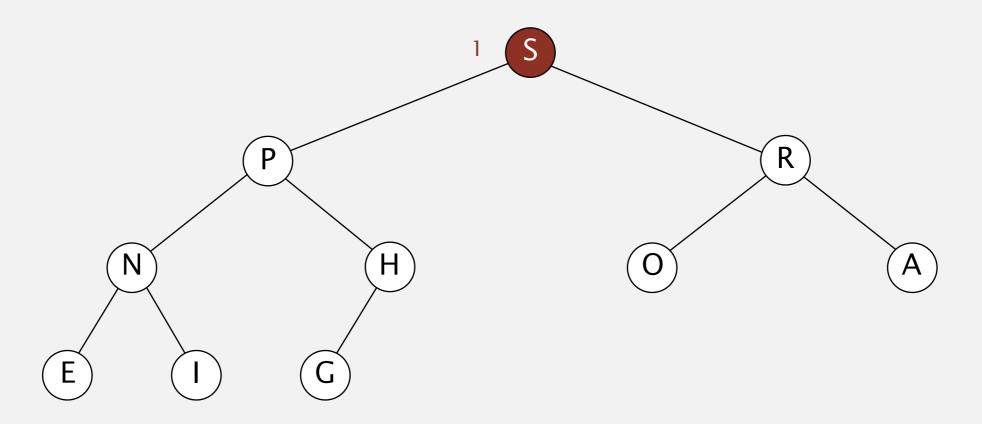


S P R N H O A E I G

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

### remove the maximum

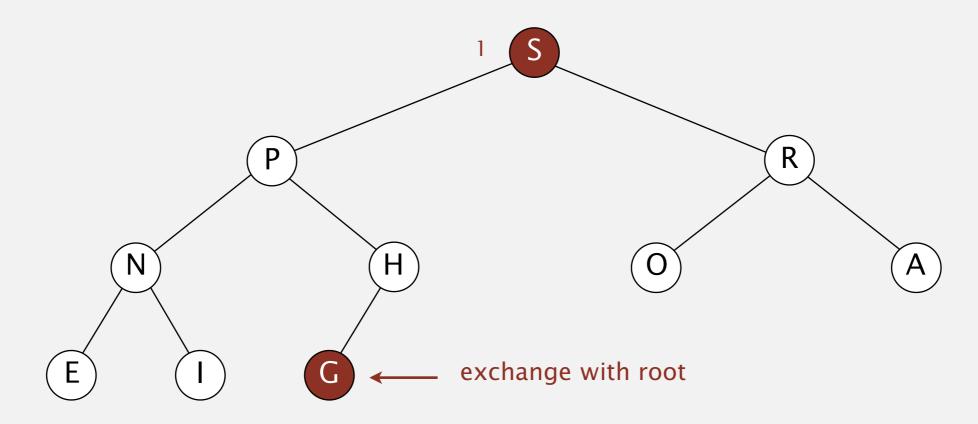


S P R N H O A E I G

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

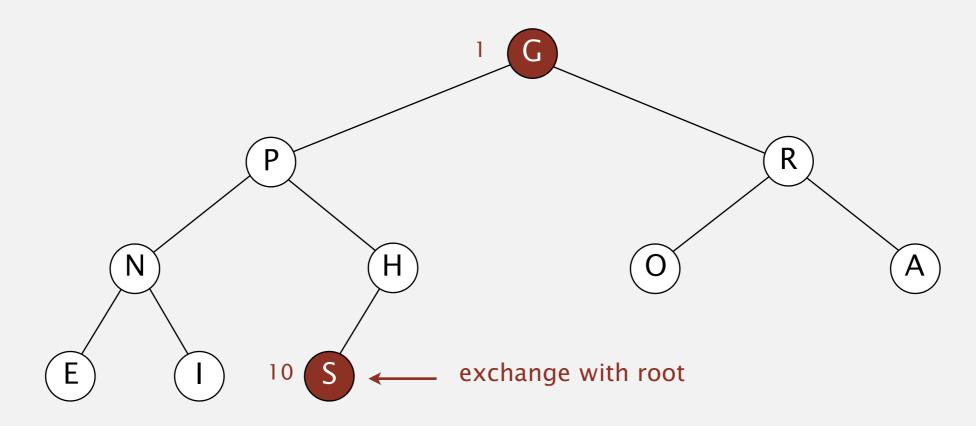
## remove the maximum



S P R N H O A E I G

Insert. Add node at end, then swim it up.

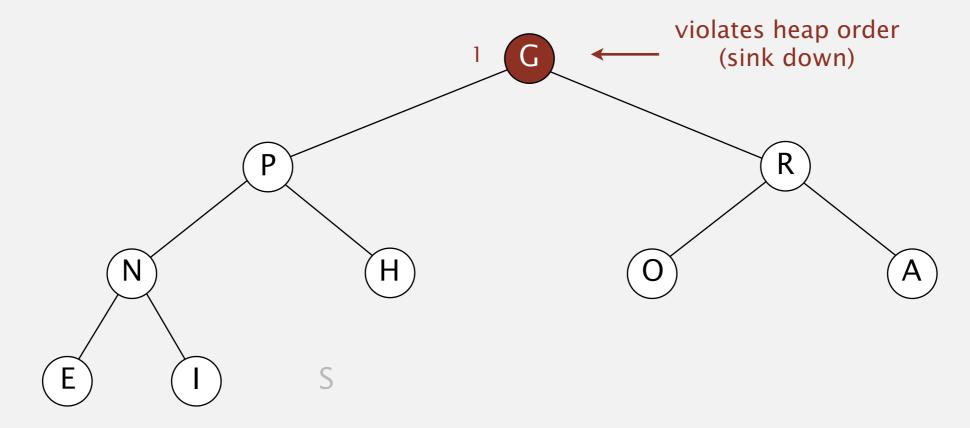
Remove the maximum. Exchange root with node at end, then sink it down.





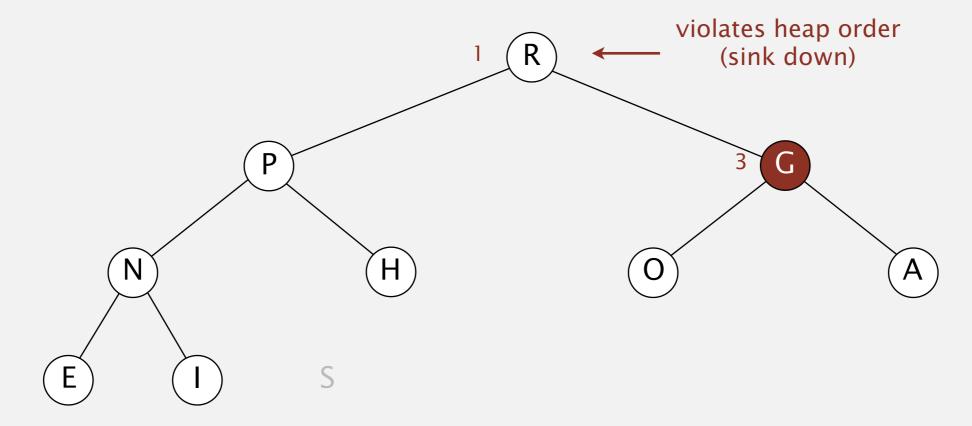
Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.



Insert. Add node at end, then swim it up.

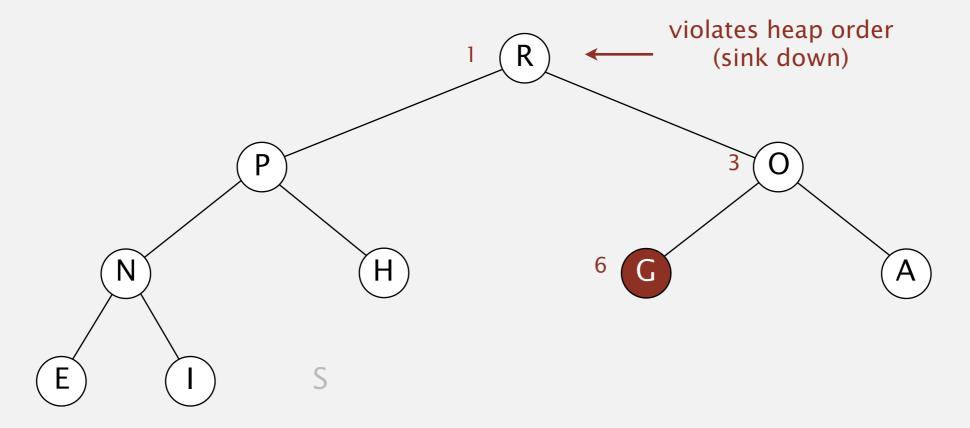
Remove the maximum. Exchange root with node at end, then sink it down.



R	Р	G	N	Н	0	Α	Ε	-1	S	
1		3								

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

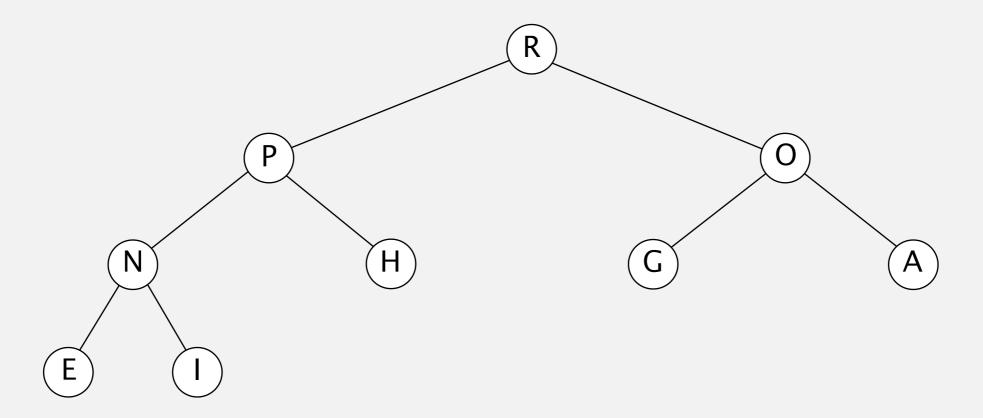


R	Р	0	N	Н	G	А	Е	ı	S	
1		3			6					

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

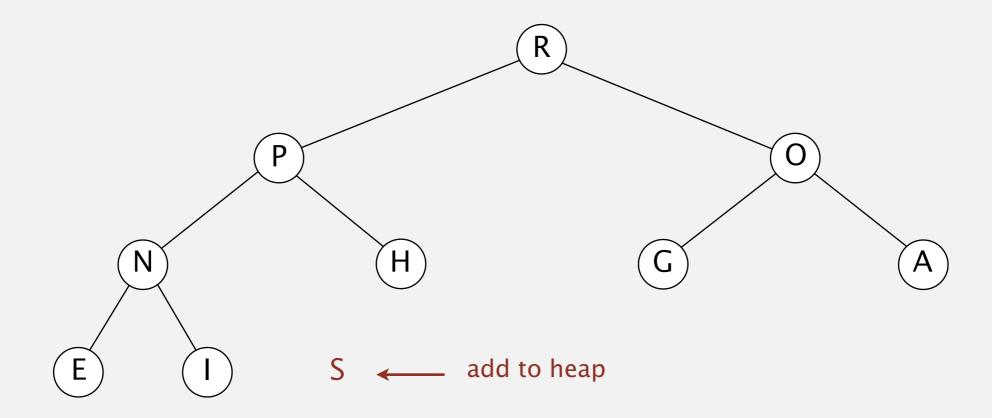
## heap ordered



R P O N H G A E I

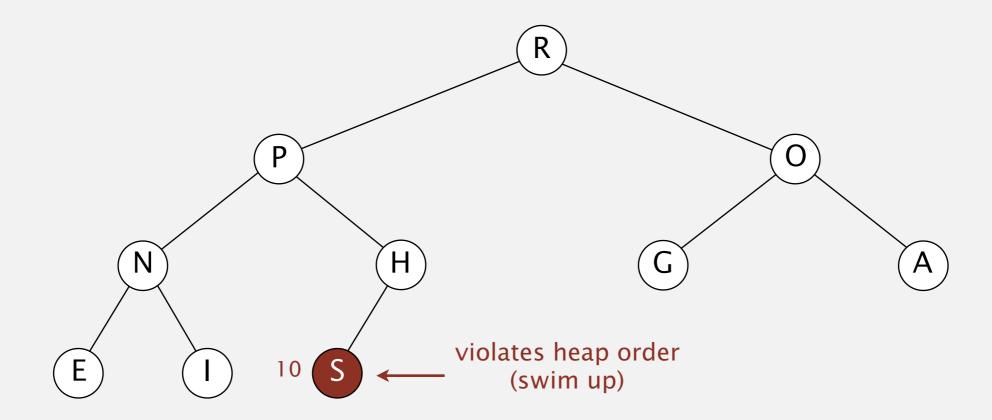
Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.



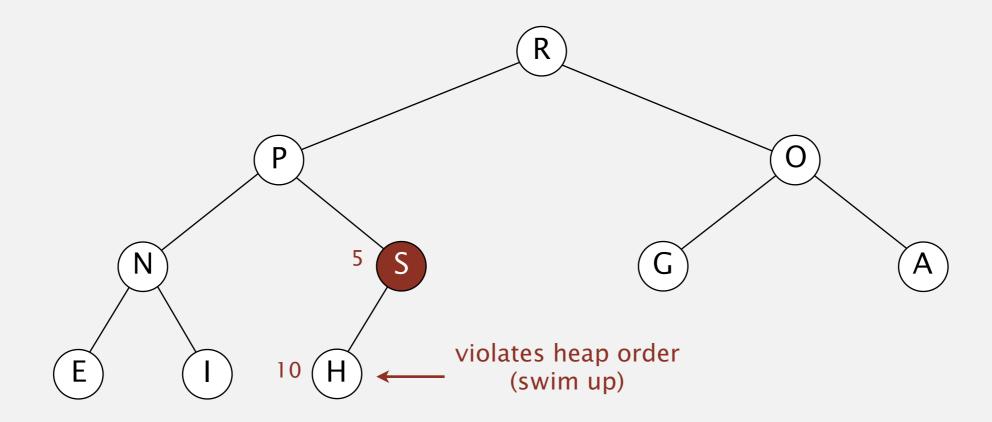
Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.



Insert. Add node at end, then swim it up.

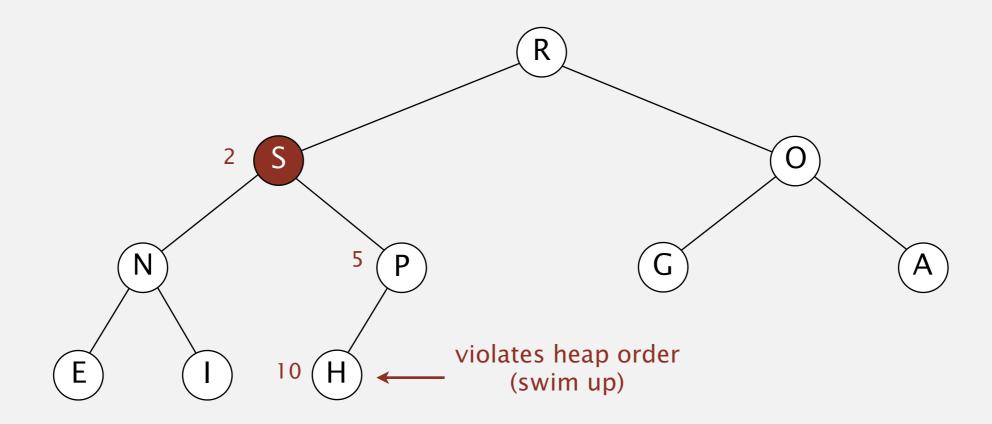
Remove the maximum. Exchange root with node at end, then sink it down.





Insert. Add node at end, then swim it up.

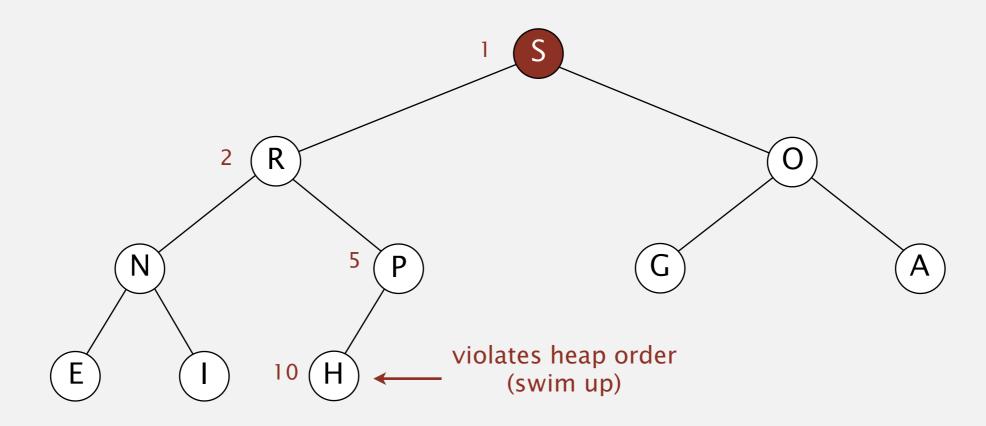
Remove the maximum. Exchange root with node at end, then sink it down.





Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

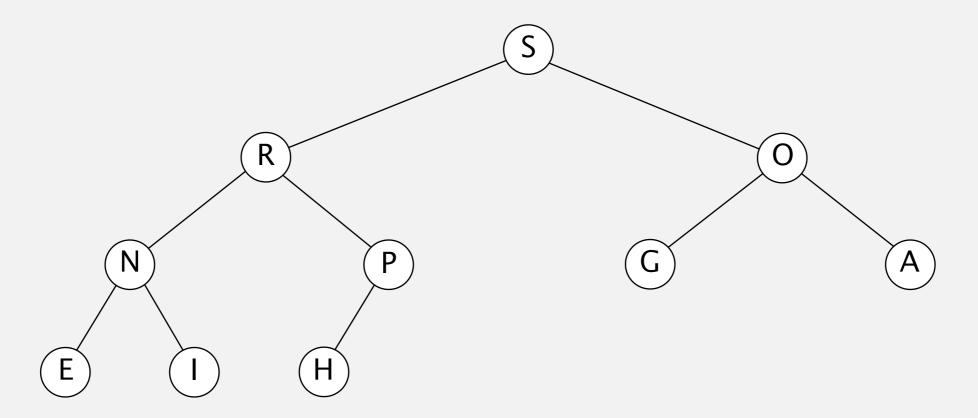


S	R	0	N	Р	G	Α	Ε	I	Н	
1	2			5					10	

Insert. Add node at end, then swim it up.

Remove the maximum. Exchange root with node at end, then sink it down.

## heap ordered



S R O N P G A E I H