

## Red-black BST construction demo

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insert S

## Red-black BST construction demo

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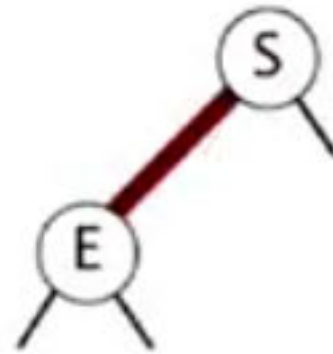
insert S



## Red-black BST construction demo

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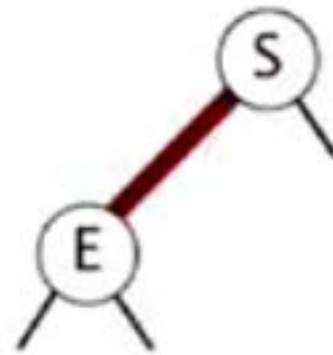
insert E



## Red-black BST construction demo

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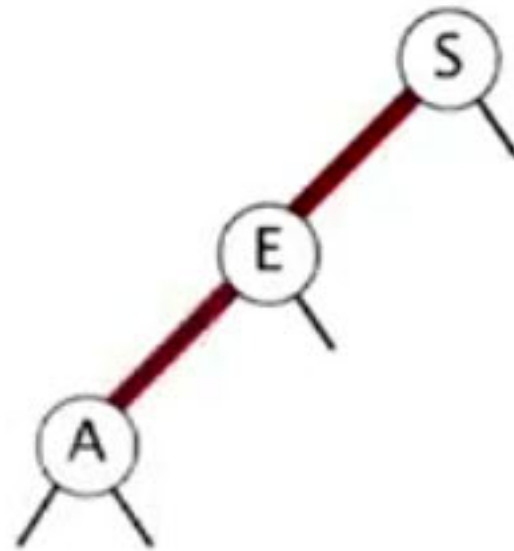
insert A



## Red-black BST construction demo

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insert A

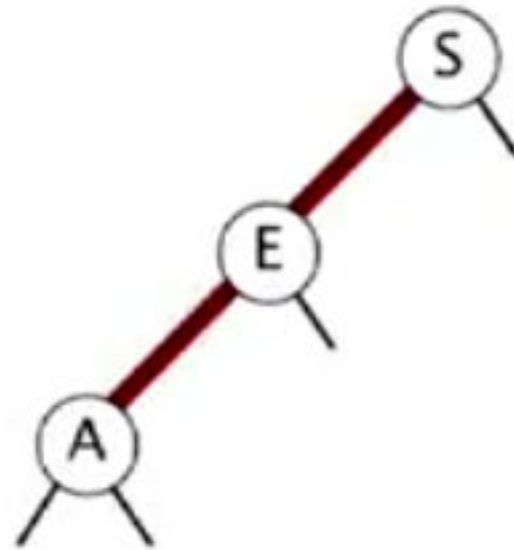


## Red-black BST construction demo

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insert A

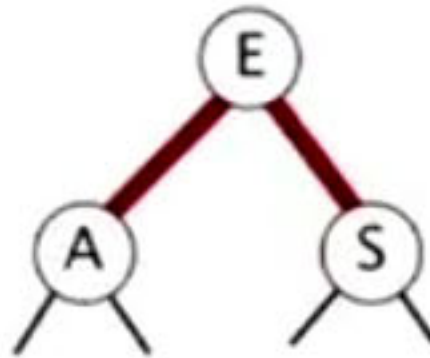
two left reds in a row  
(rotate S right)



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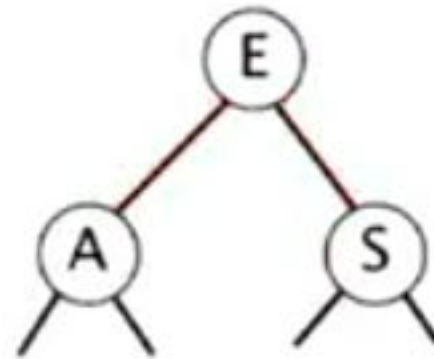
both children red  
(flip colors)



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red-black BST

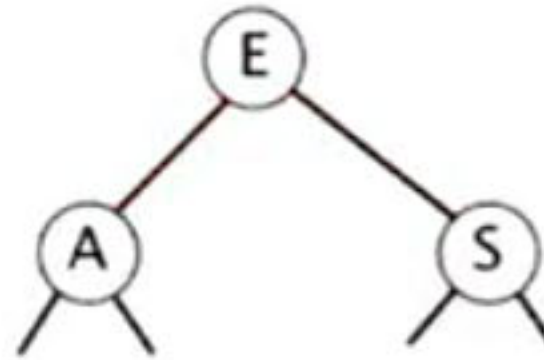




## Red-black BST construction demo

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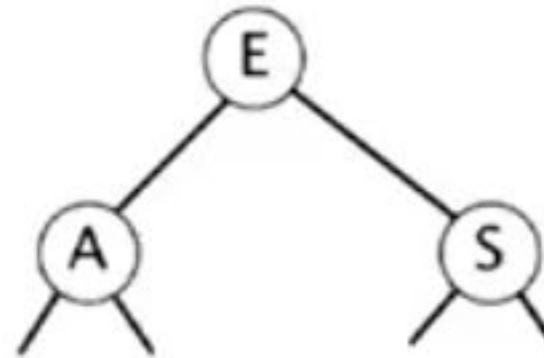
red-black BST



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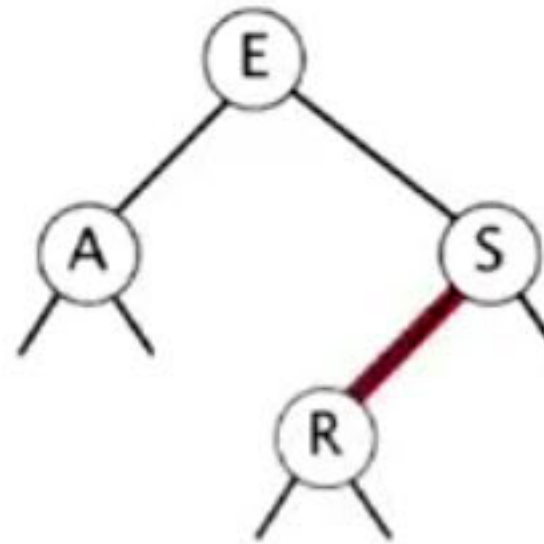
insert R



## Red-black BST construction demo

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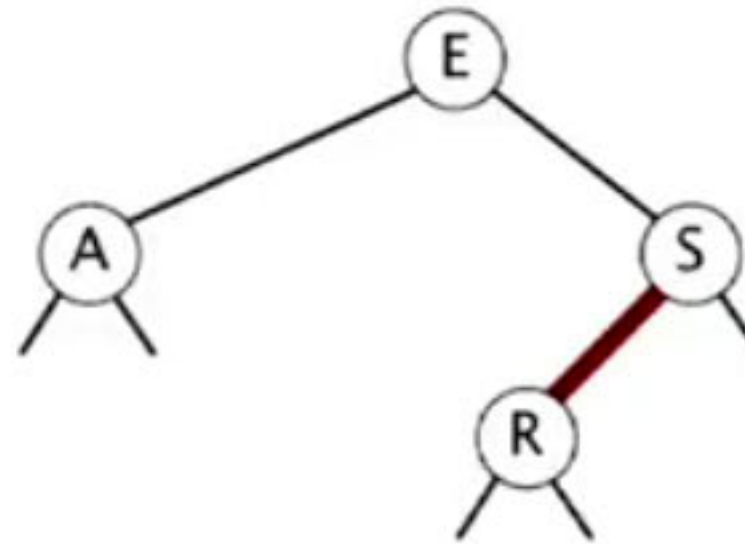
insert R



## Red-black BST construction demo

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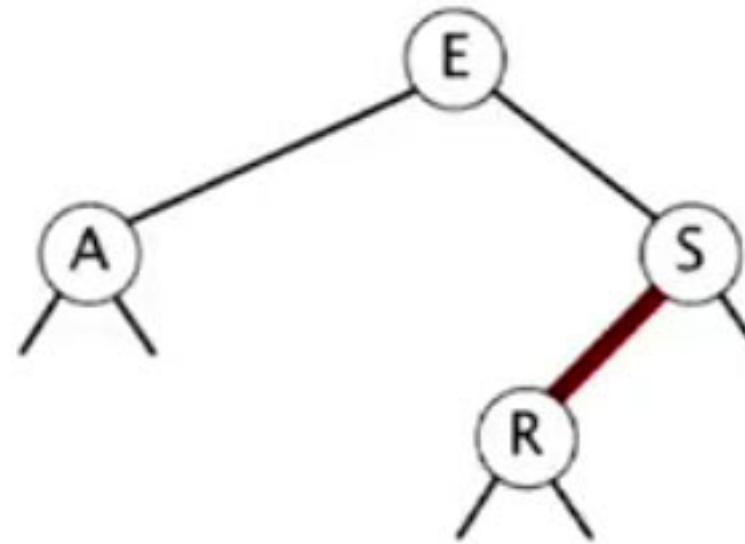
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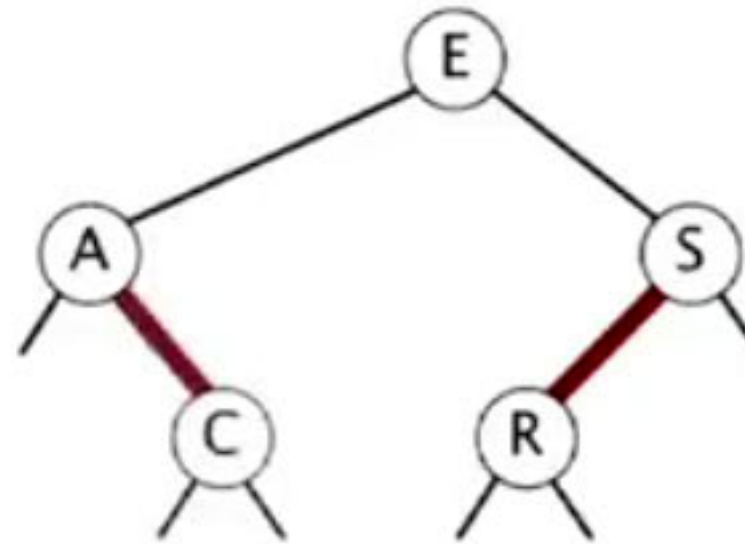
insert C



## Red-black BST construction demo

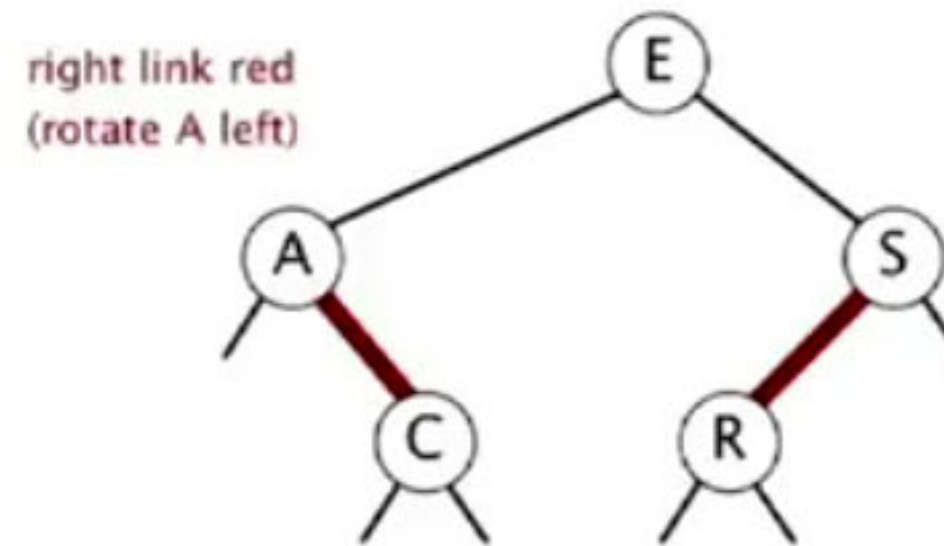
---

insert C



## Red-black BST construction demo

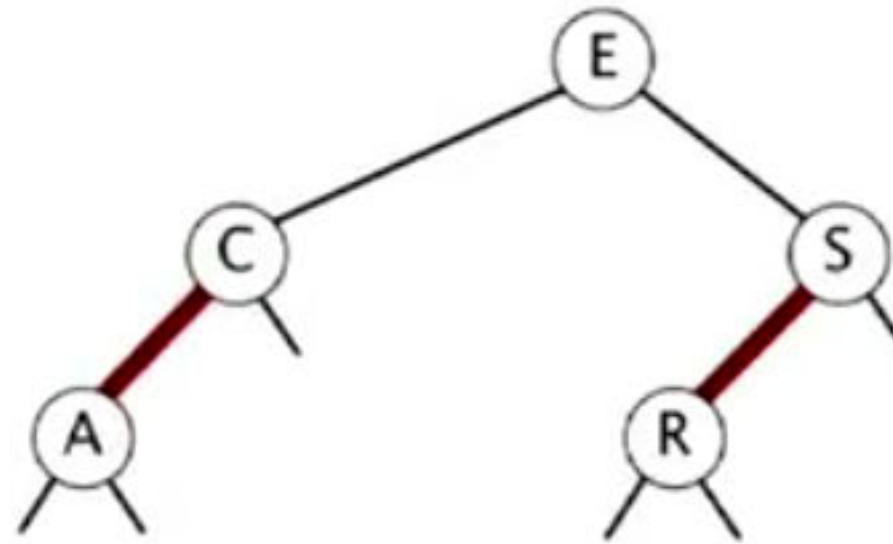
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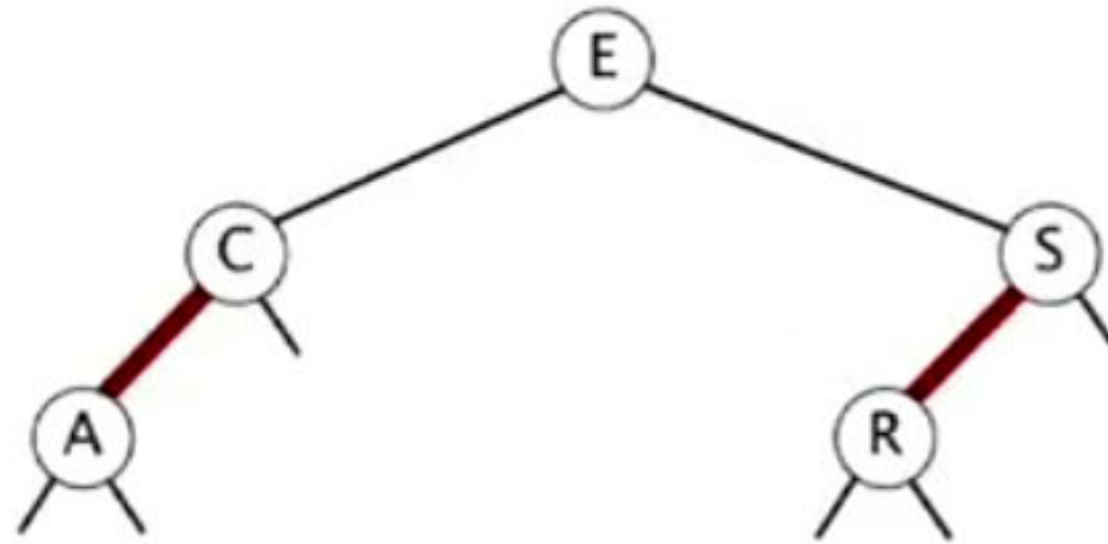




## Red-black BST construction demo

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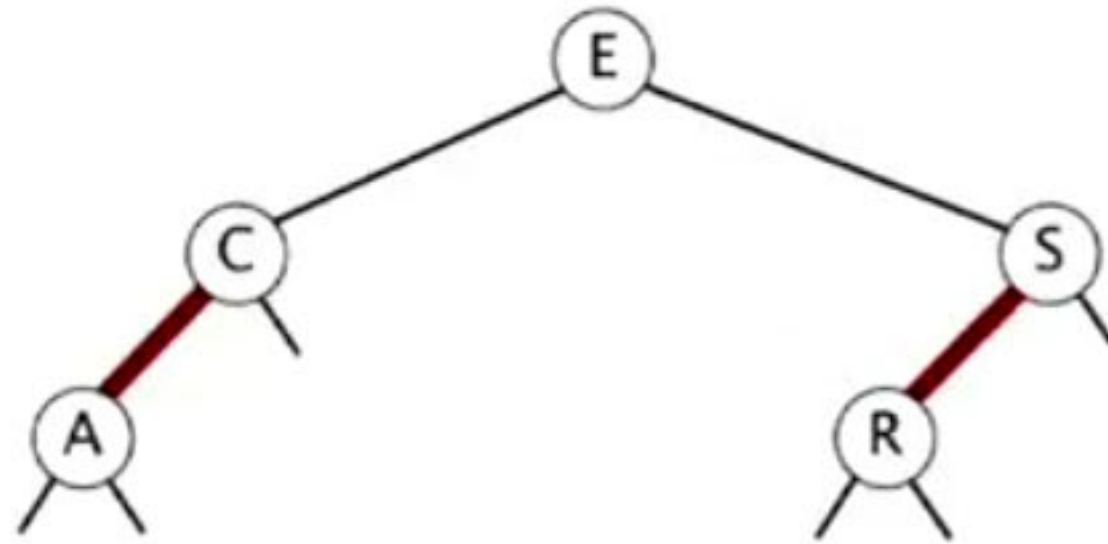
red-black BST



## Red-black BST construction demo

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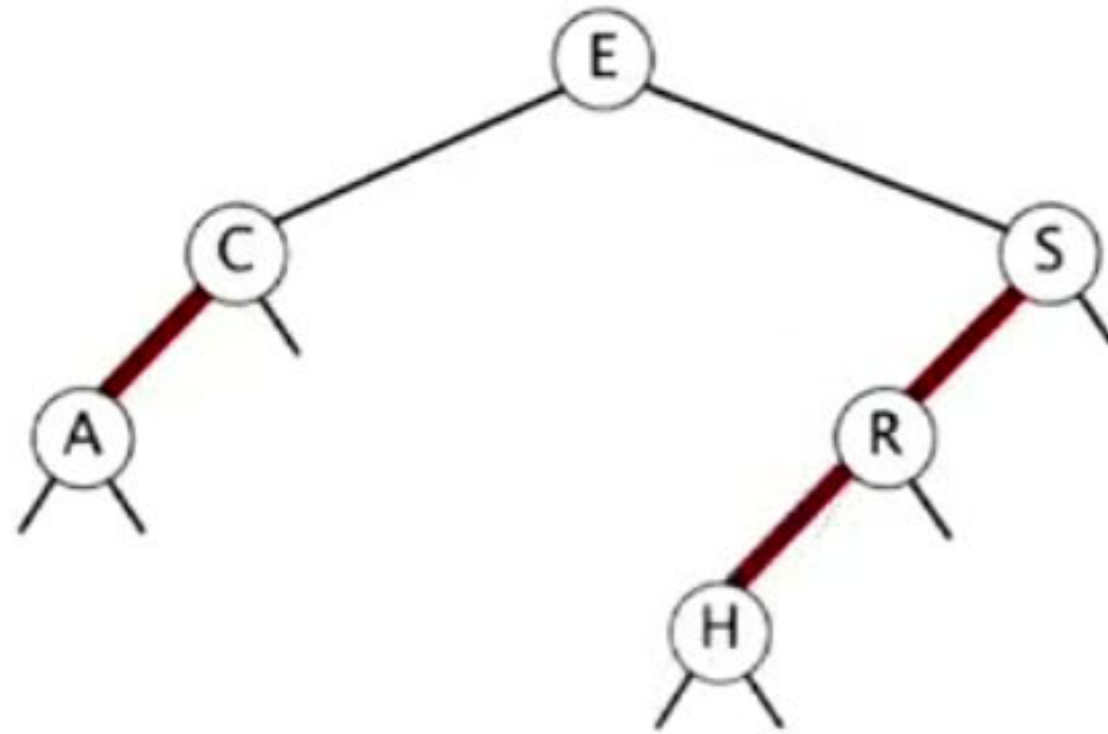
insert H



## Red-black BST construction demo

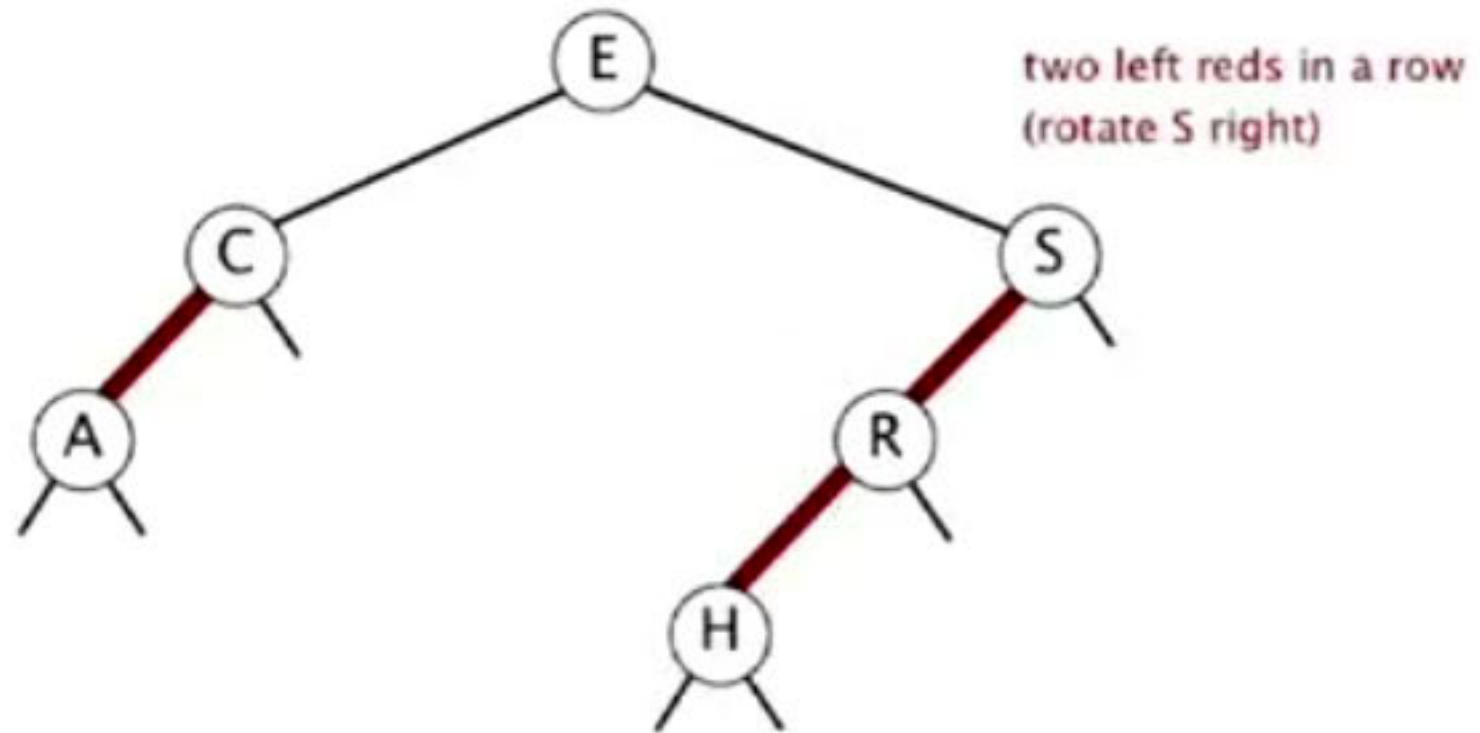
---

insert H



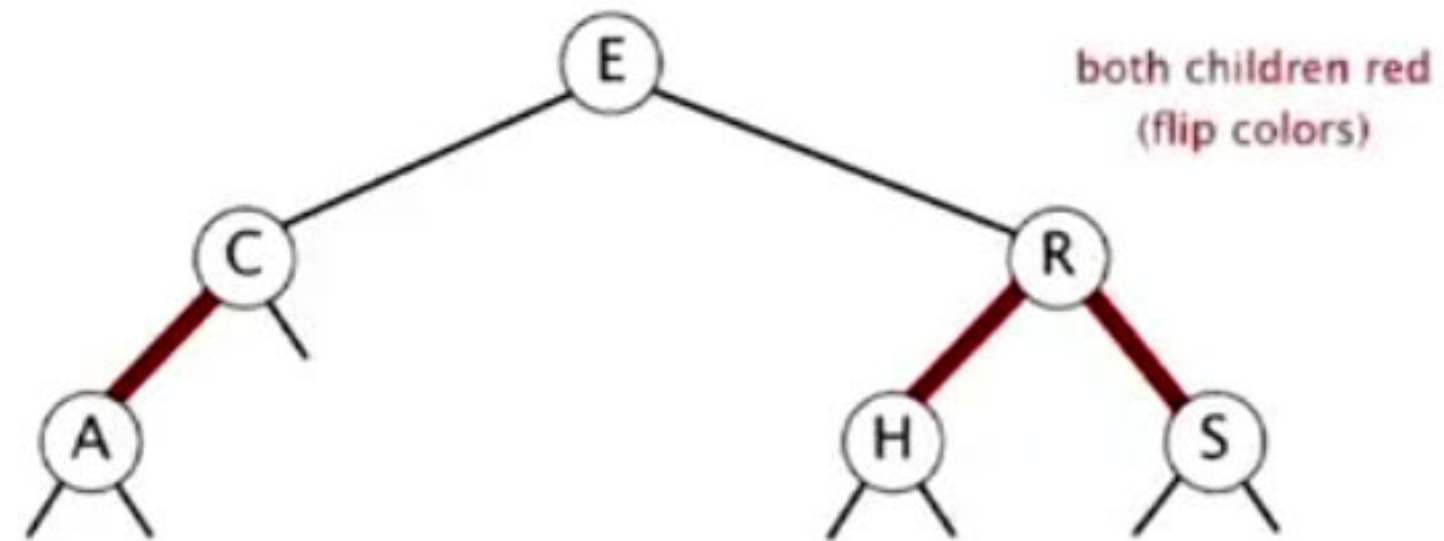
## Red-black BST construction demo

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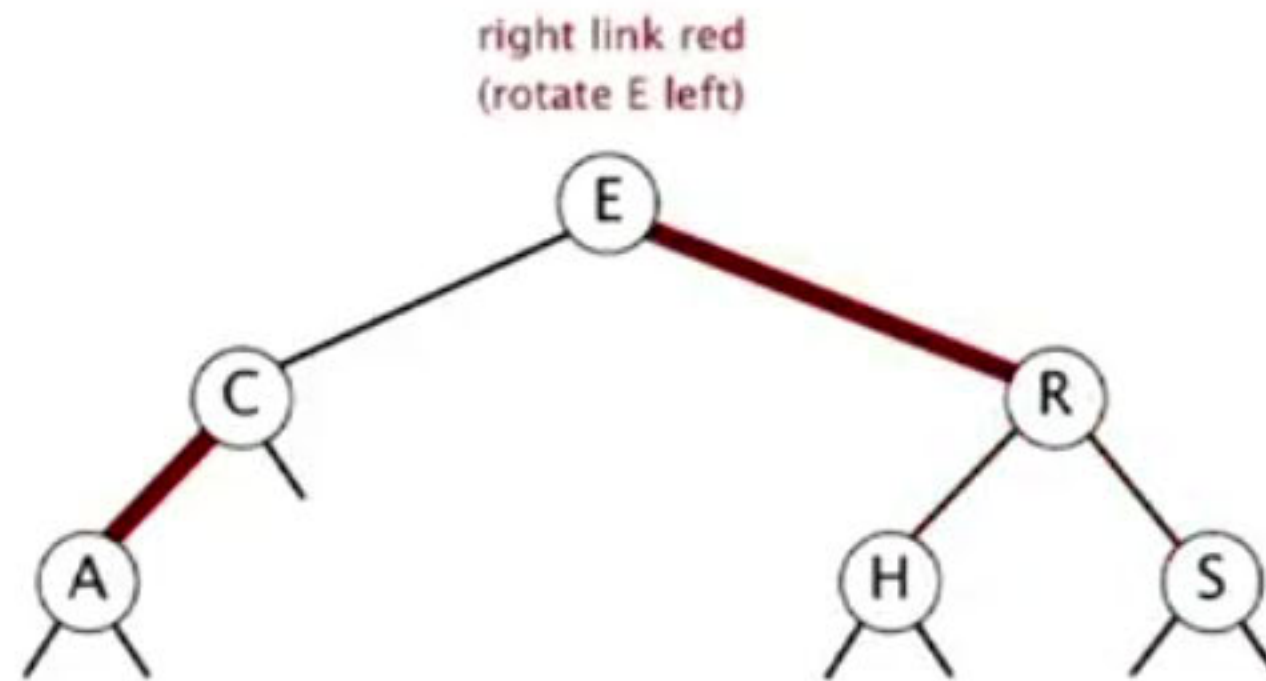
## Red-black BST construction demo

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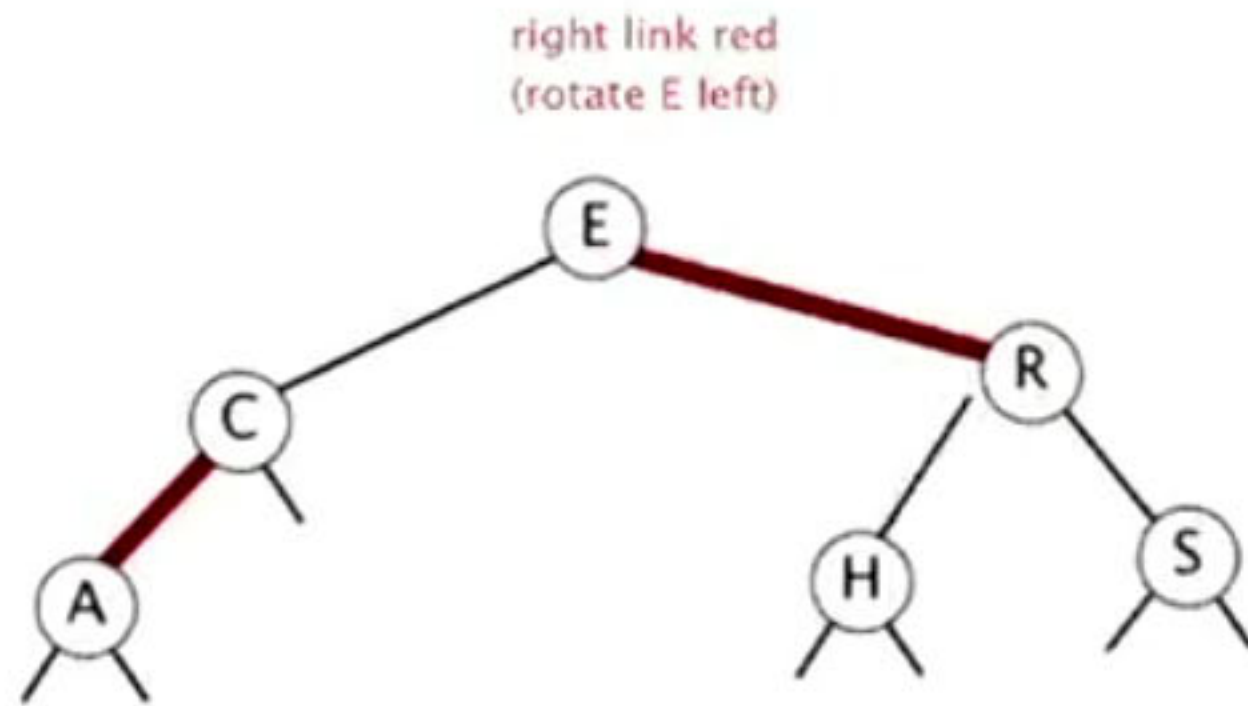
## Red-black BST construction demo

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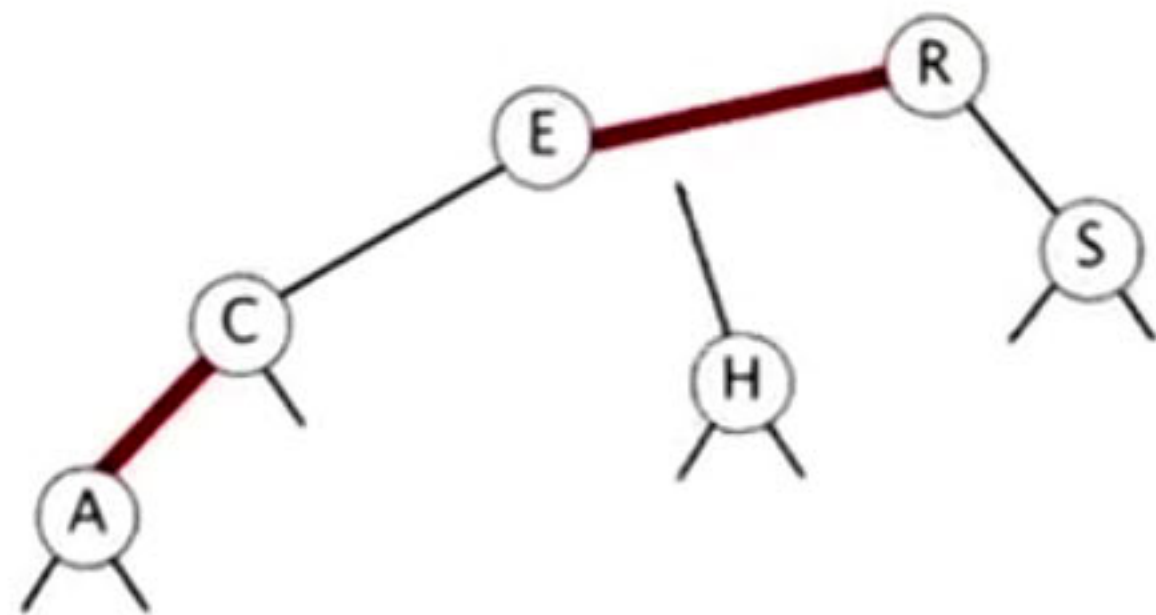
## Red-black BST construction demo

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## Red-black BST construction demo

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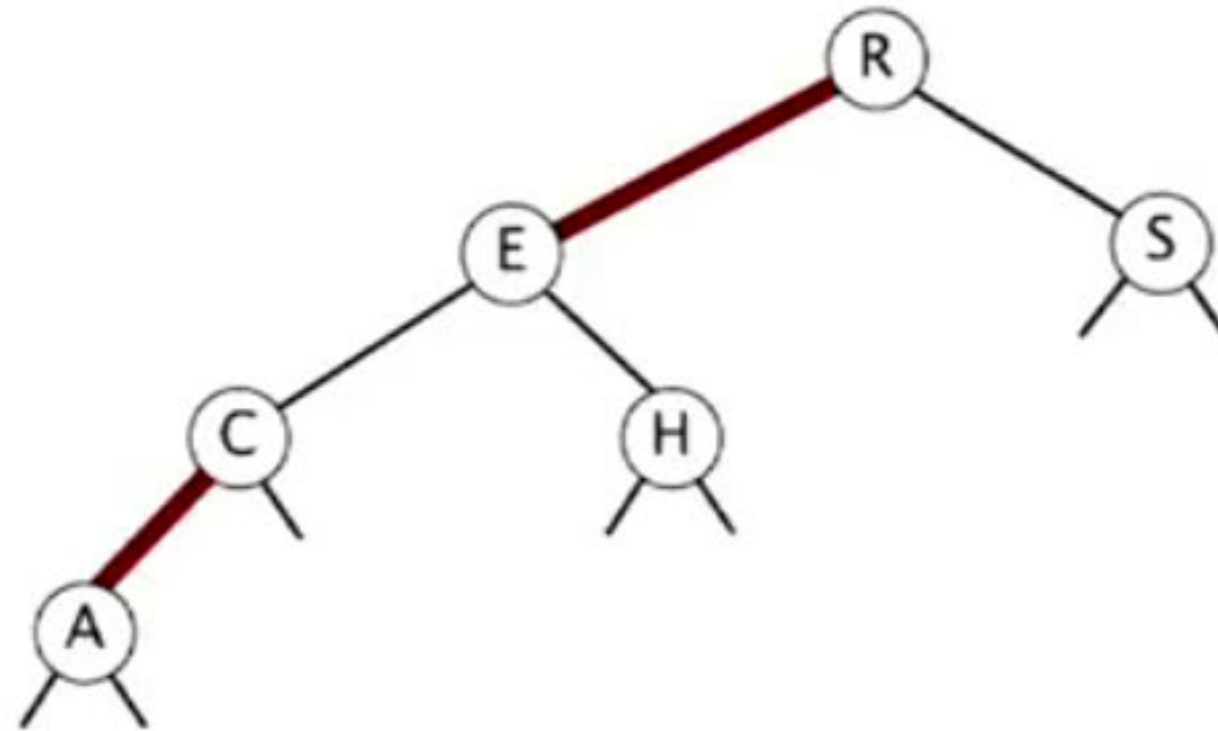




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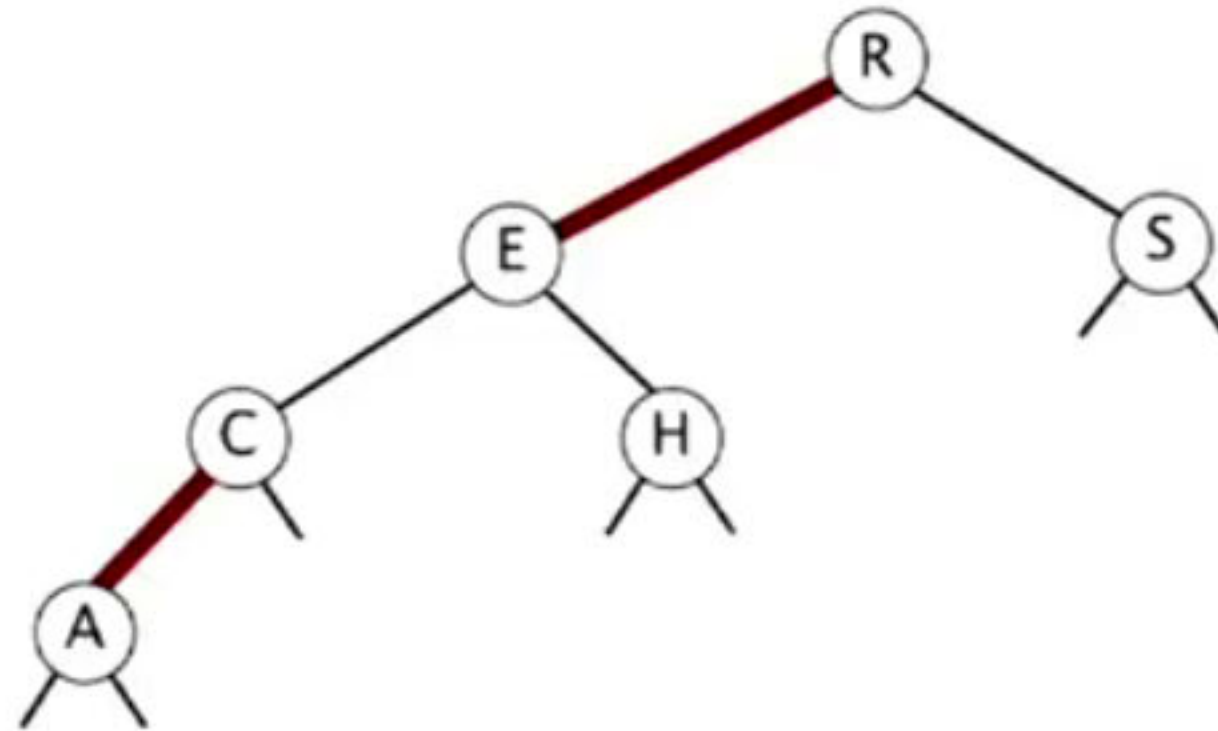
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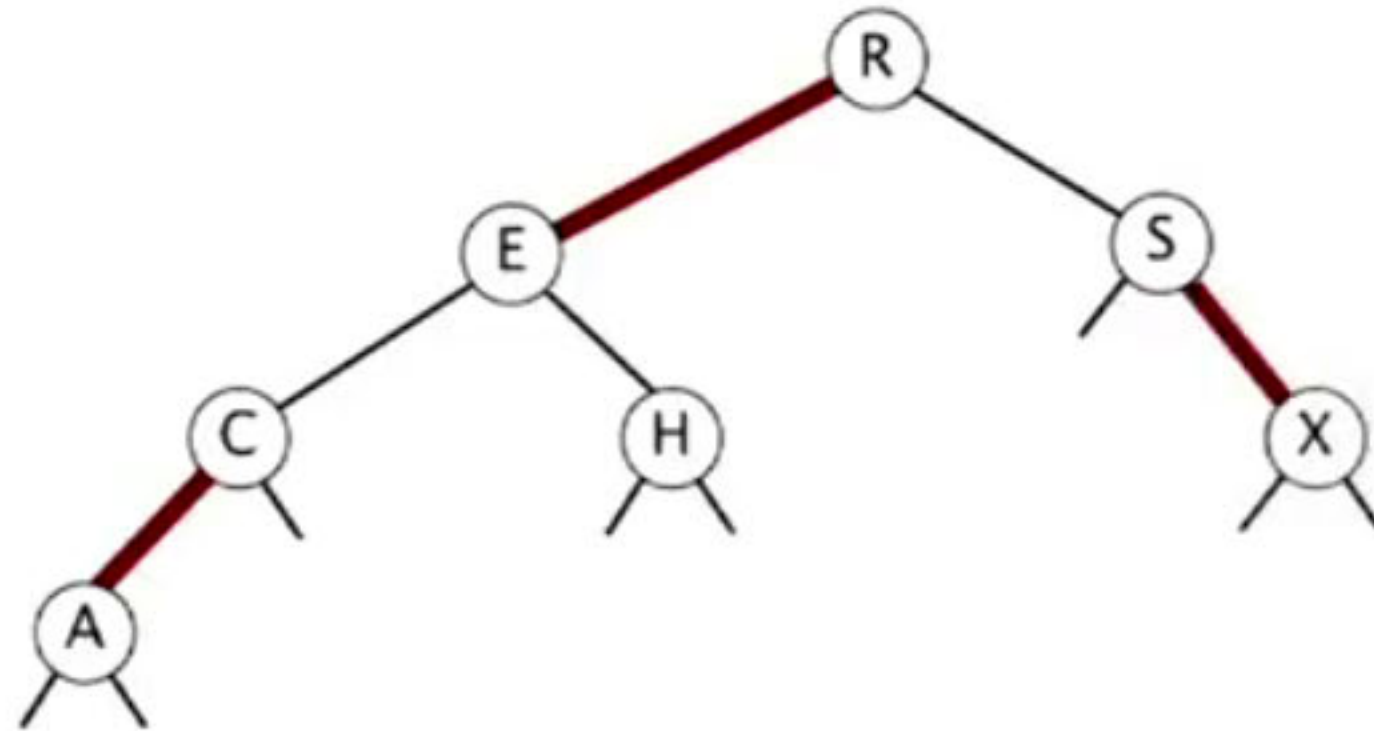
insert X



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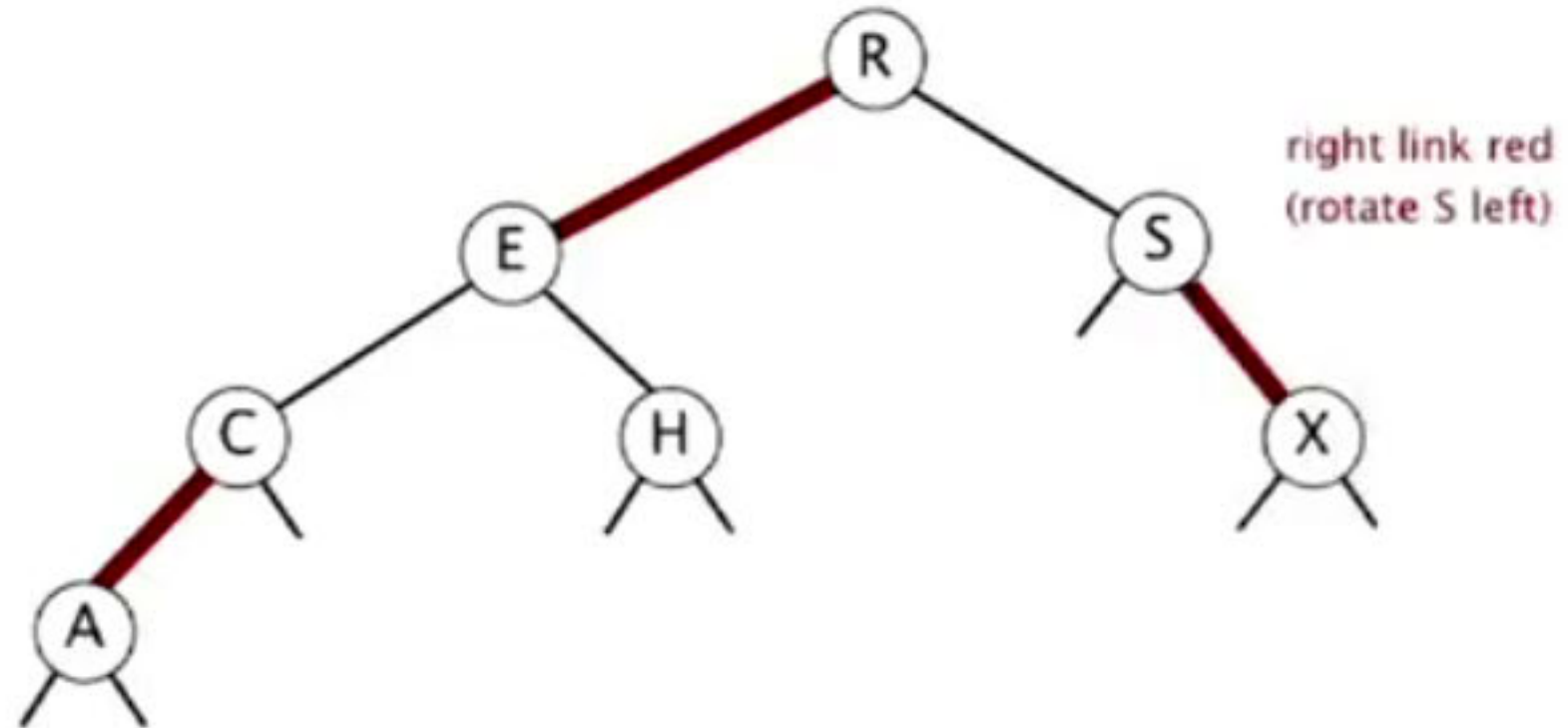
insert X



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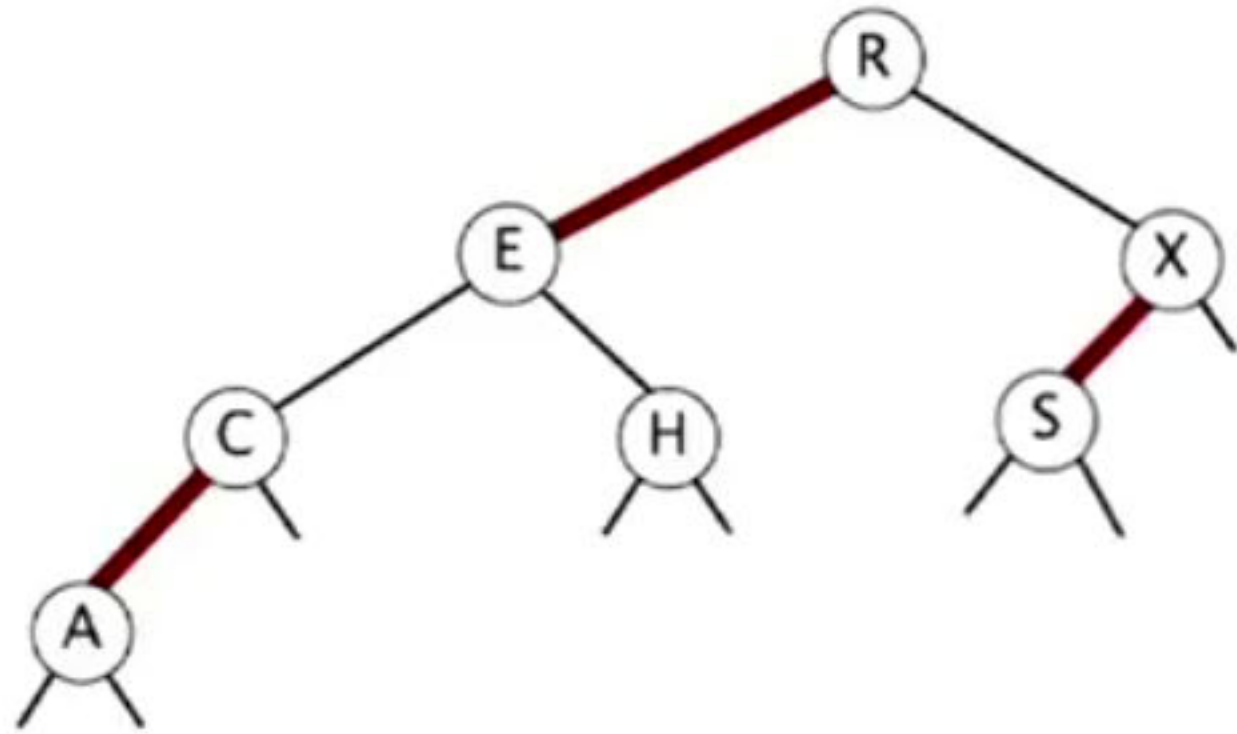
insert X



## Red-black BST construction demo

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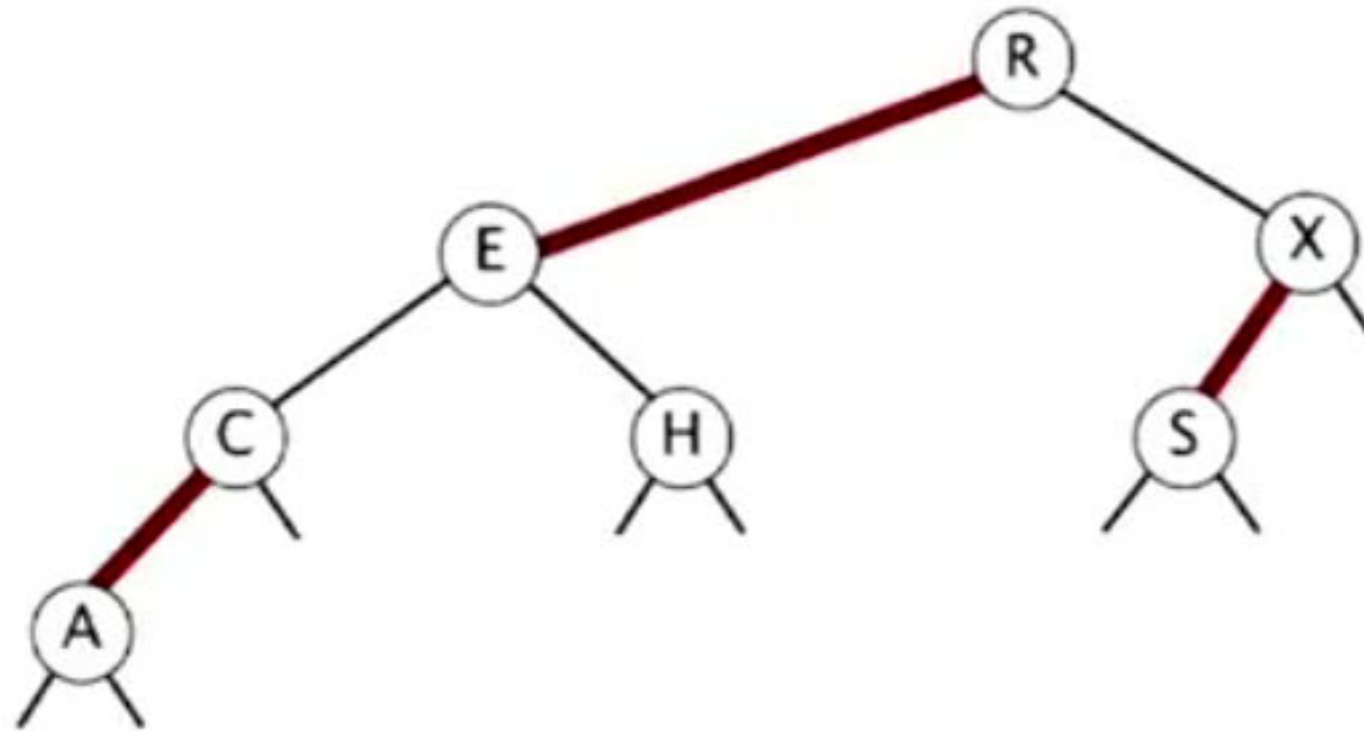
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## Red-black BST construction demo

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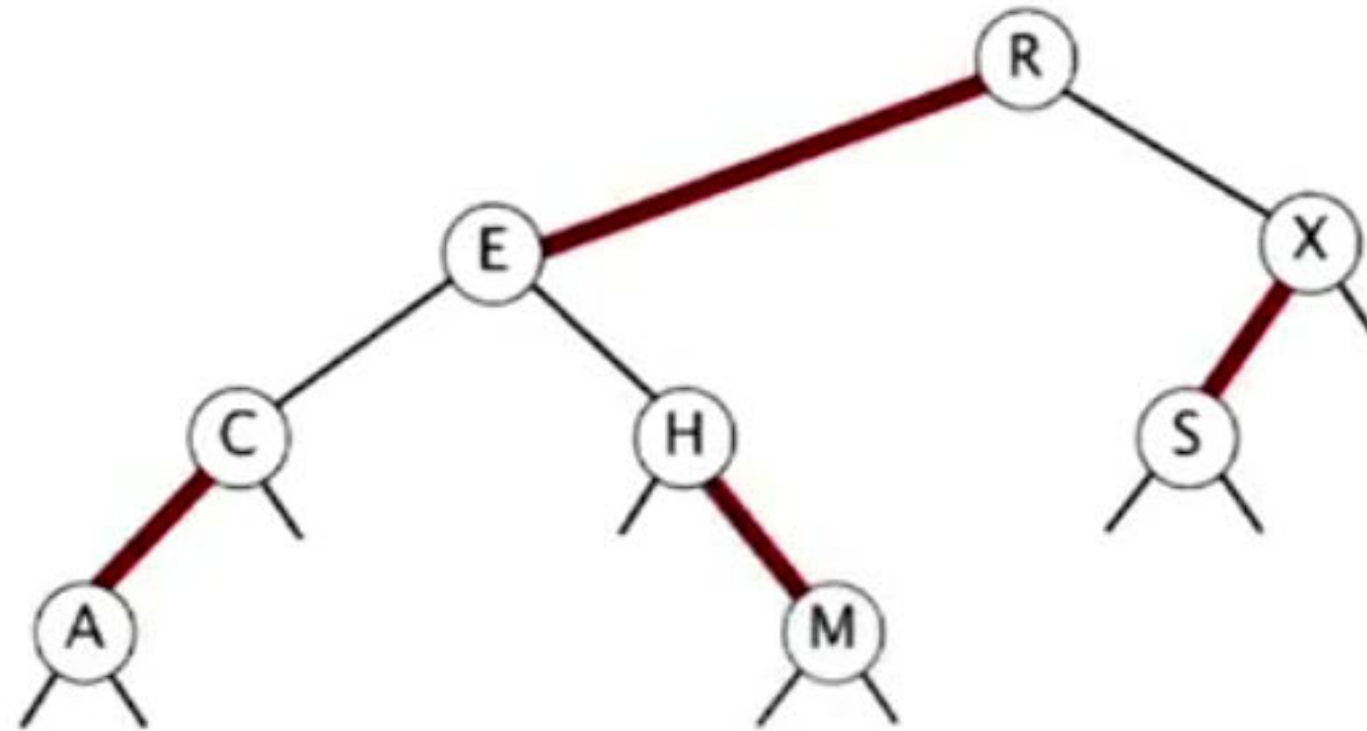
insert M



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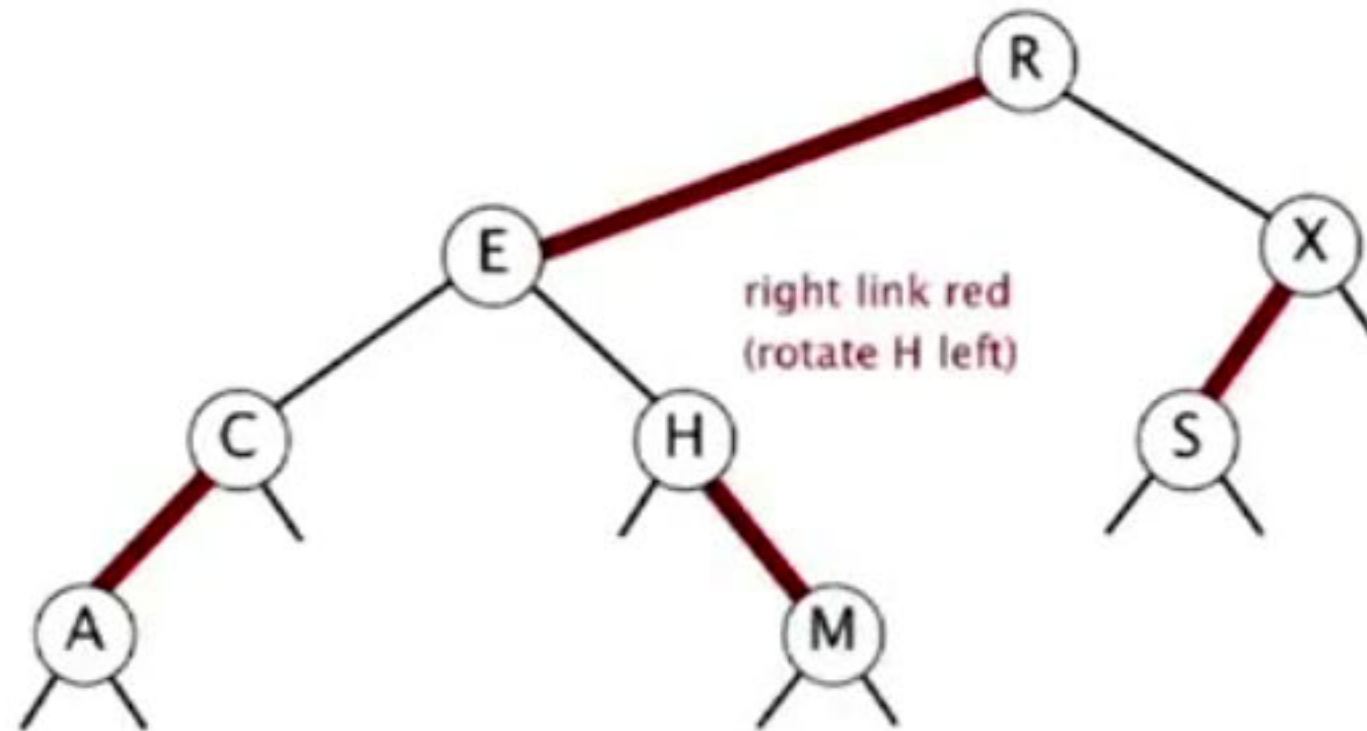
insert M



## Red-black BST construction demo

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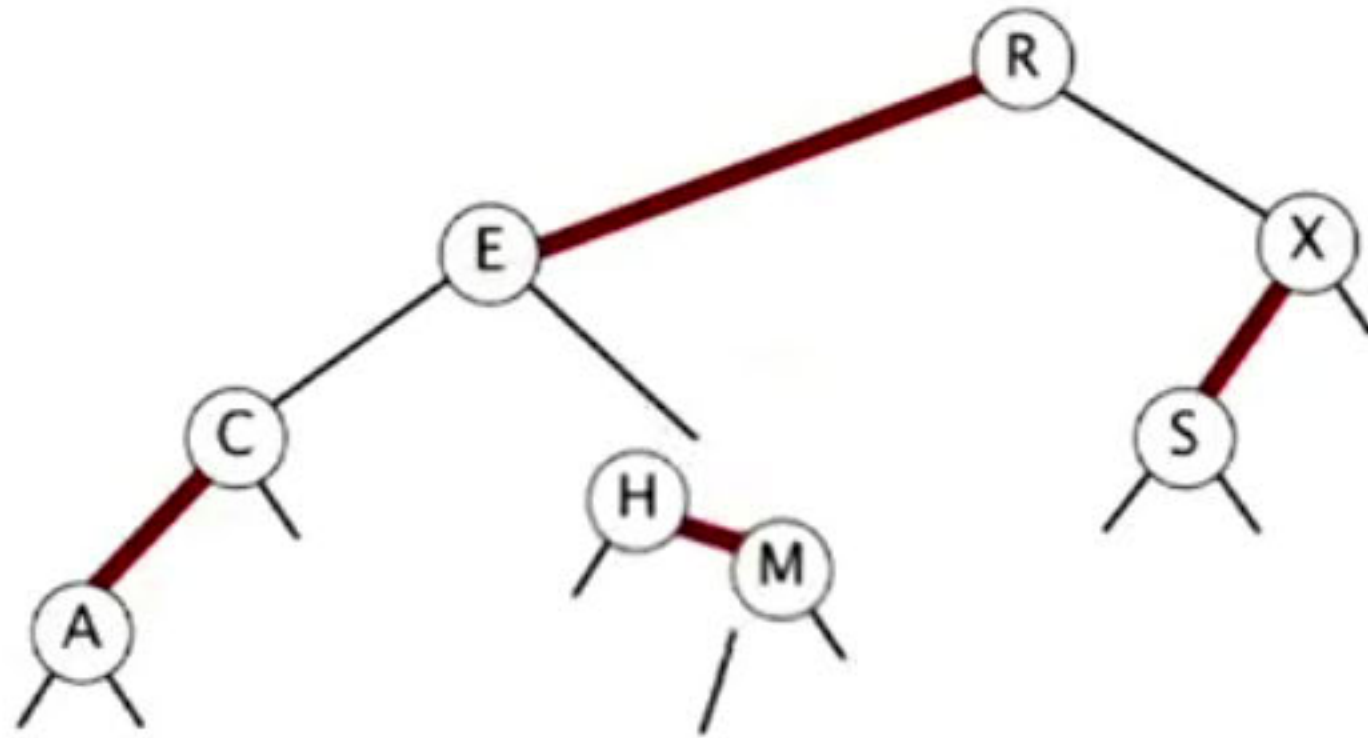
insert M





## Red-black BST construction demo

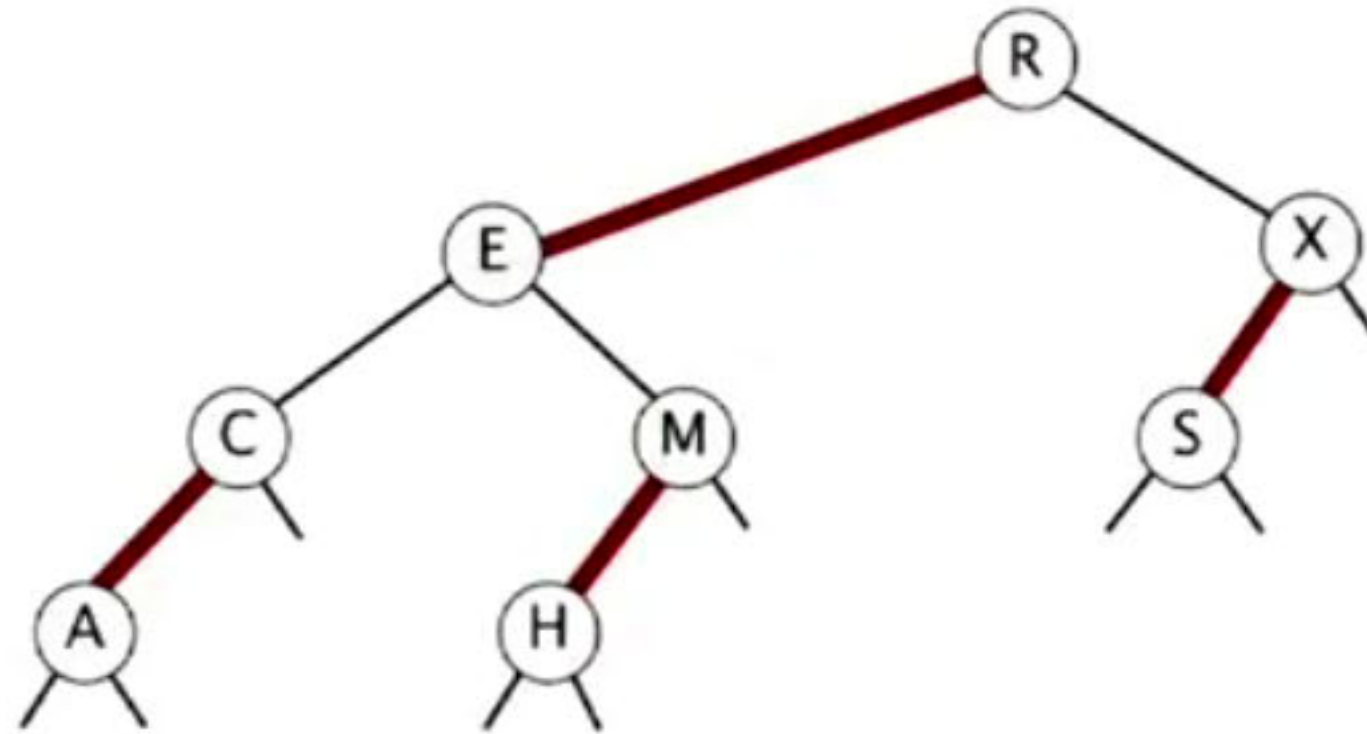
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## Red-black BST construction demo

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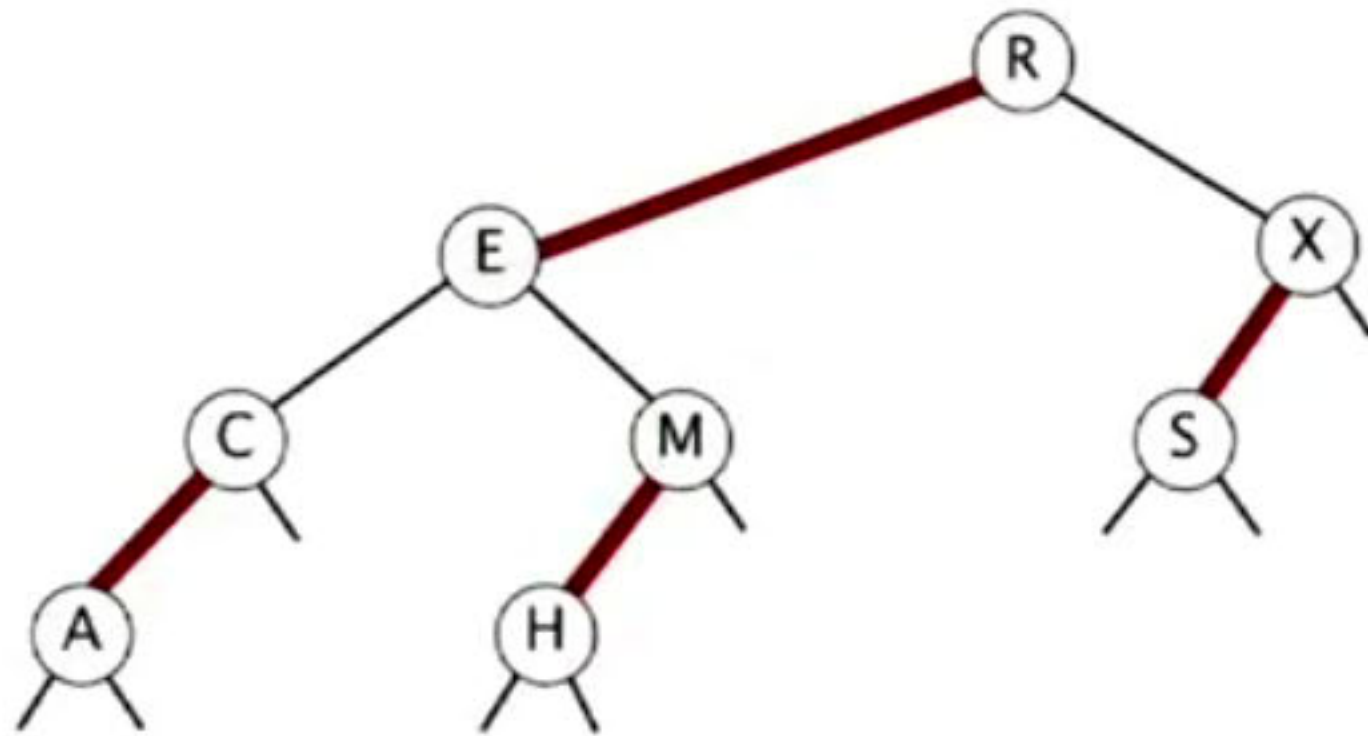
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## Red-black BST construction demo

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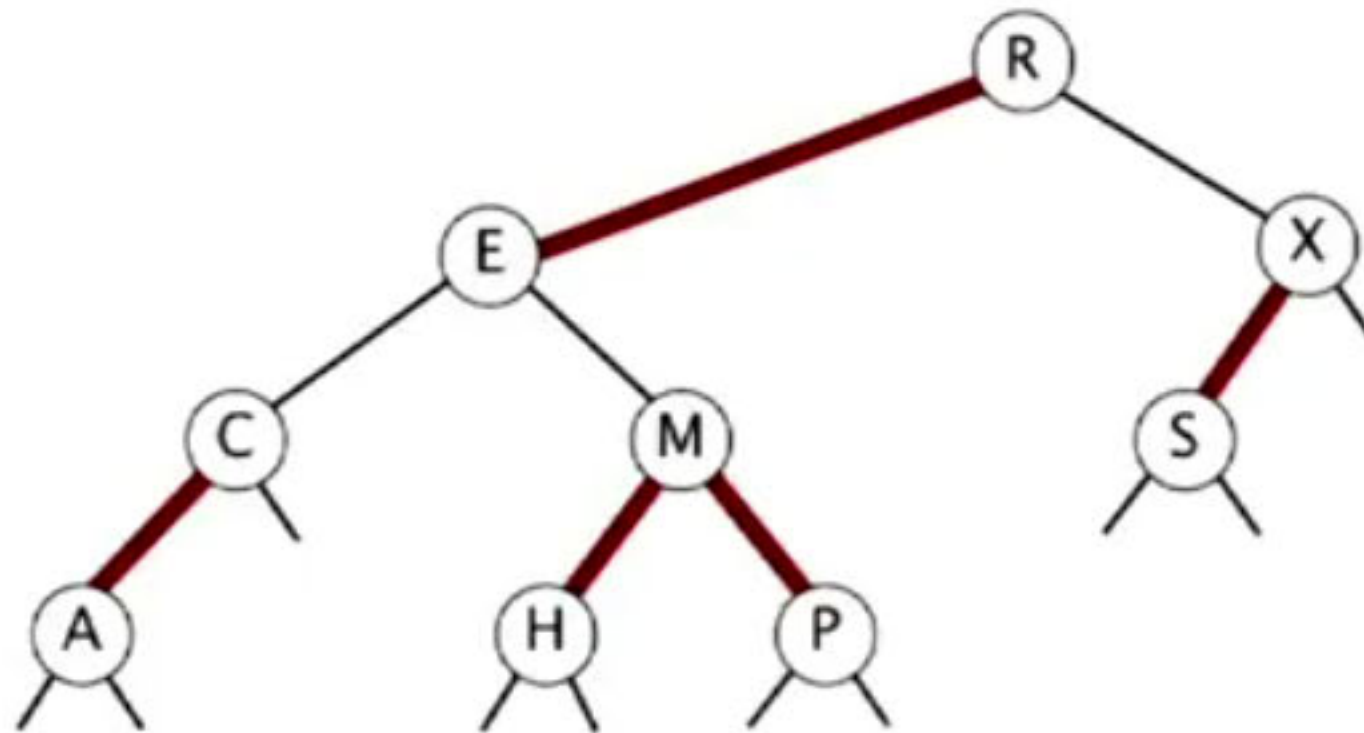
insert P



## Red-black BST construction demo

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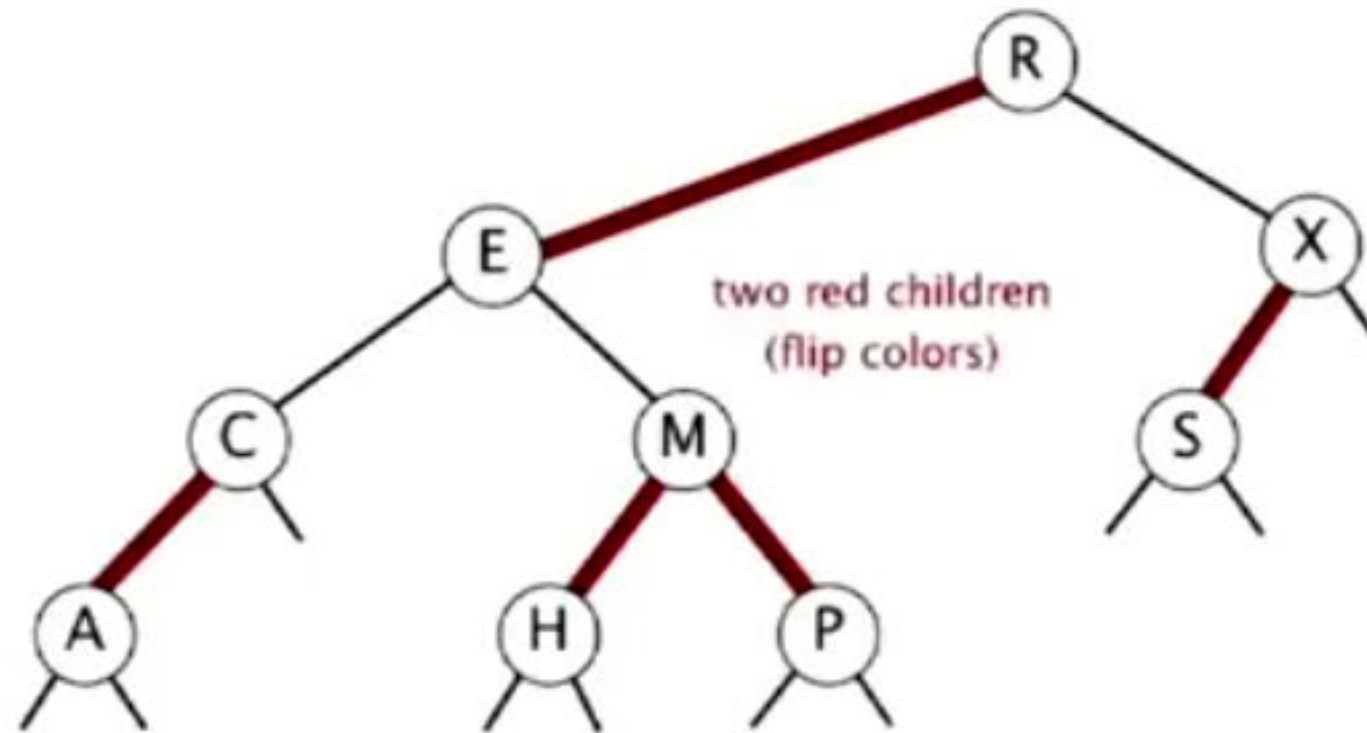
insert P



## Red-black BST construction demo

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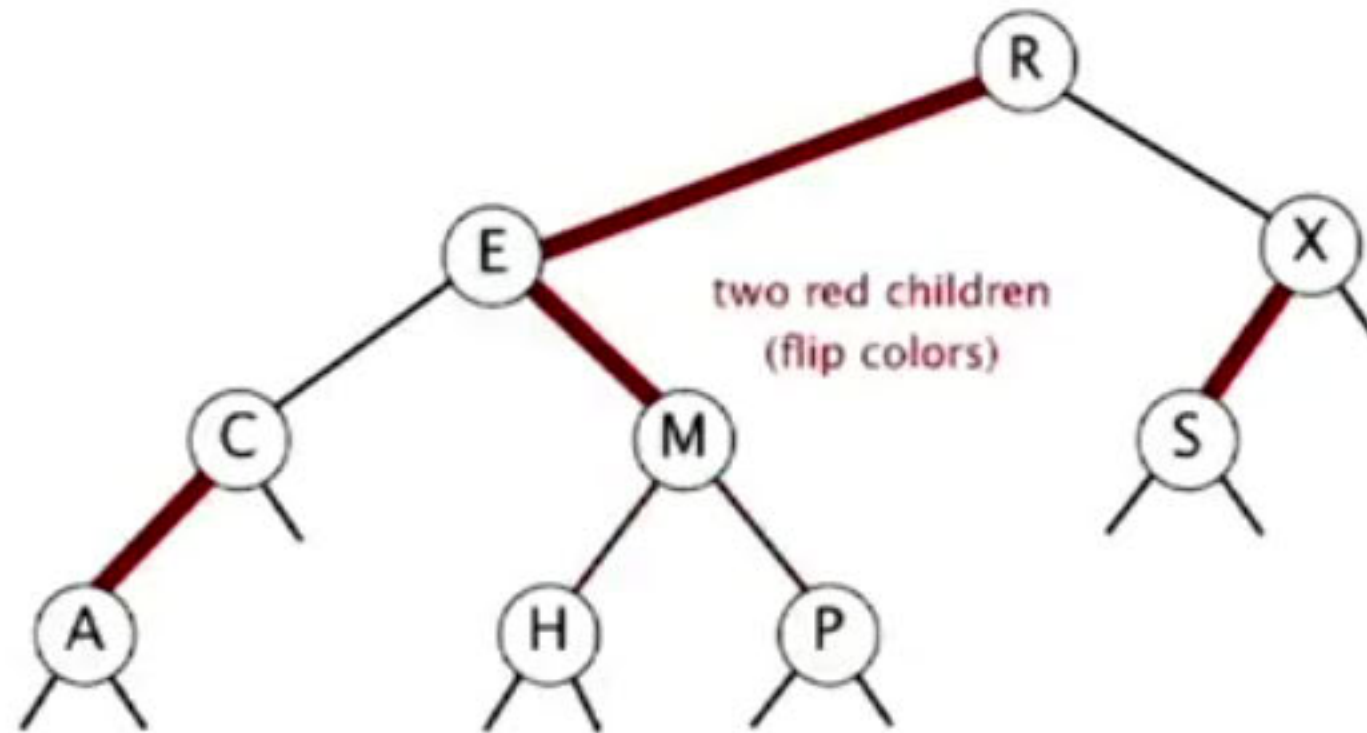
insert P



## Red-black BST construction demo

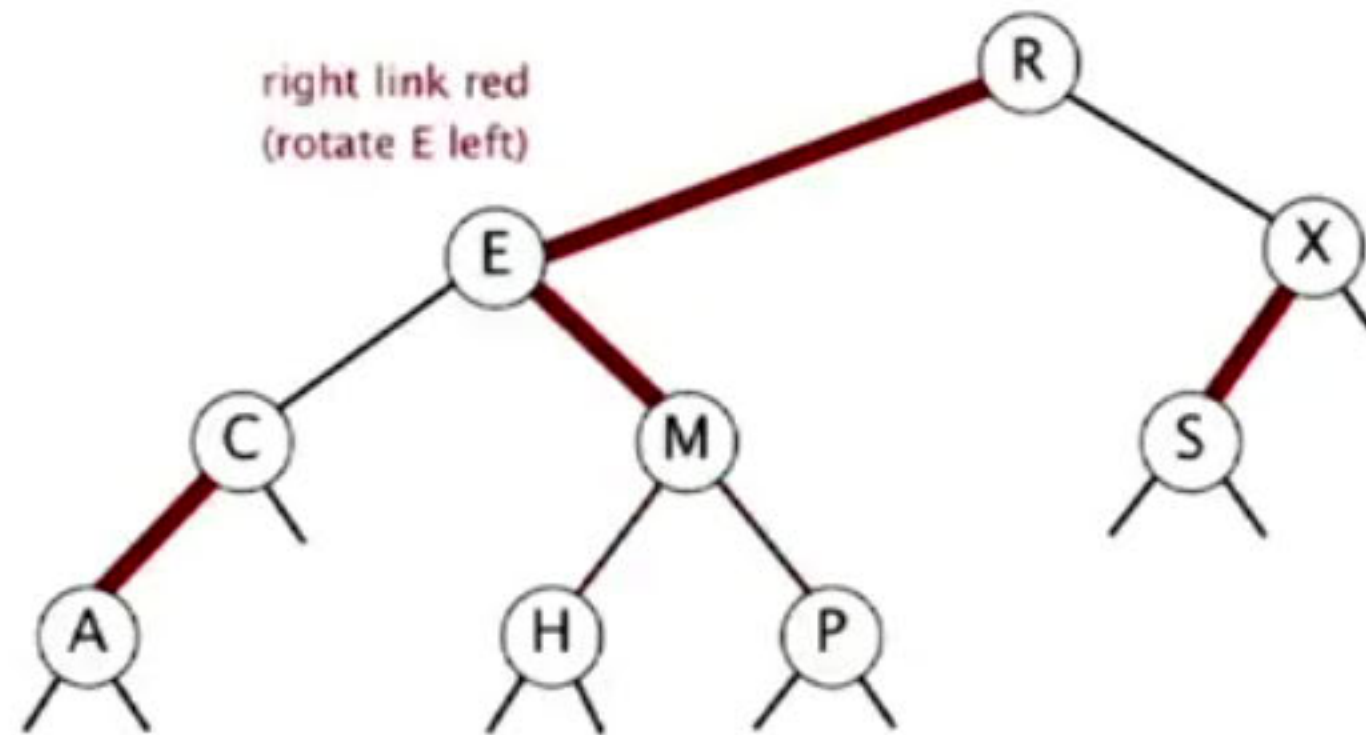
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insert P



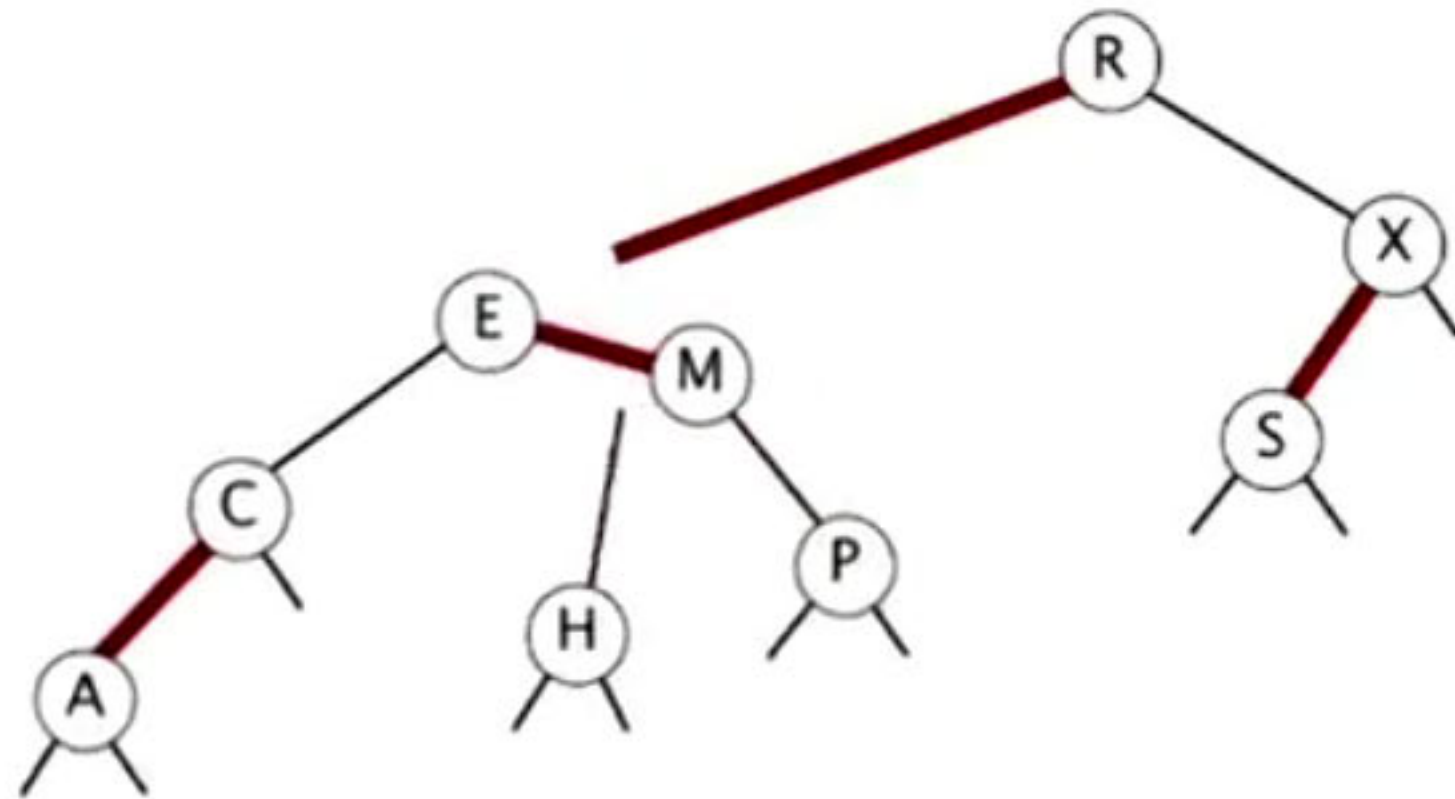
## Red-black BST construction demo

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## Red-black BST construction demo

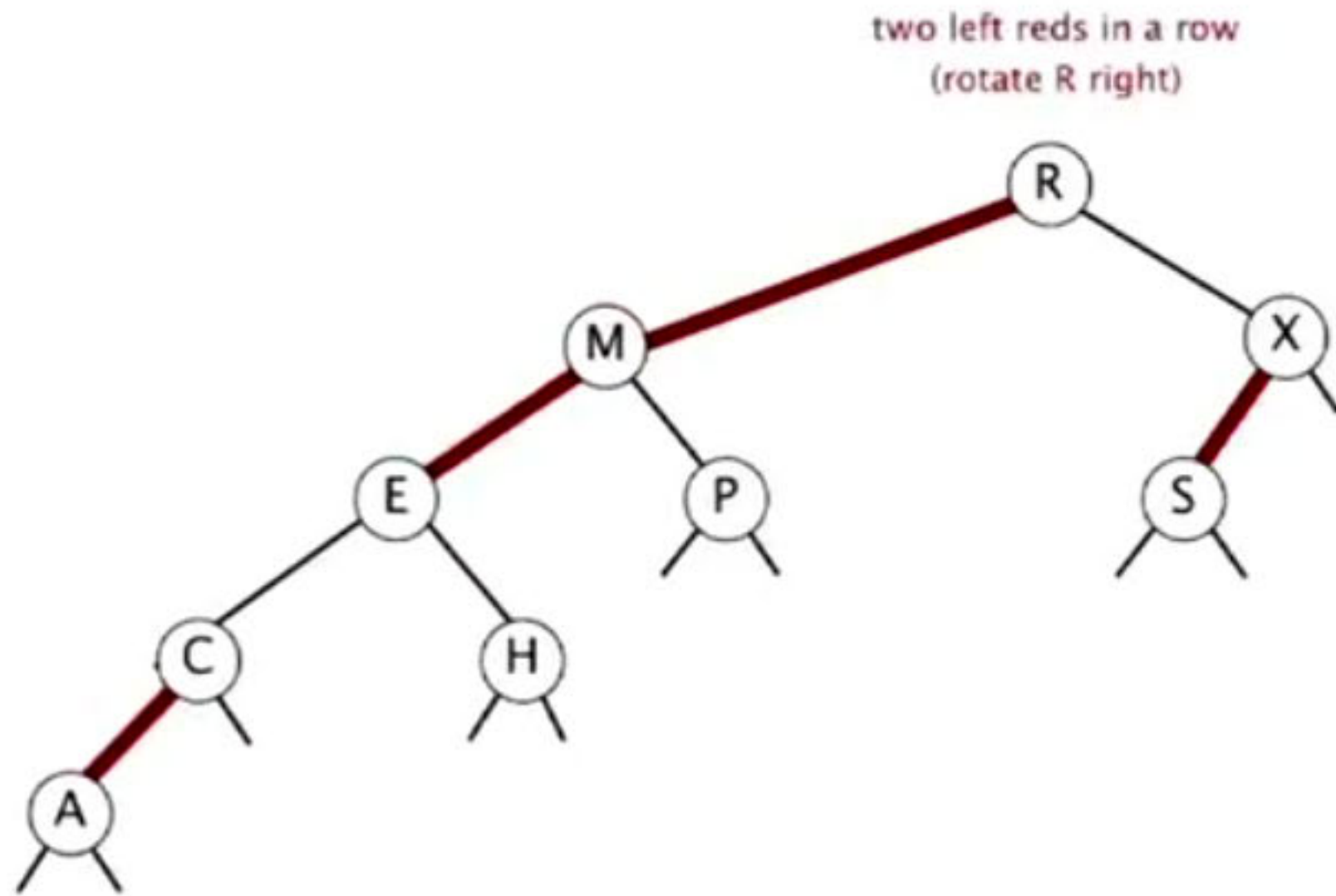
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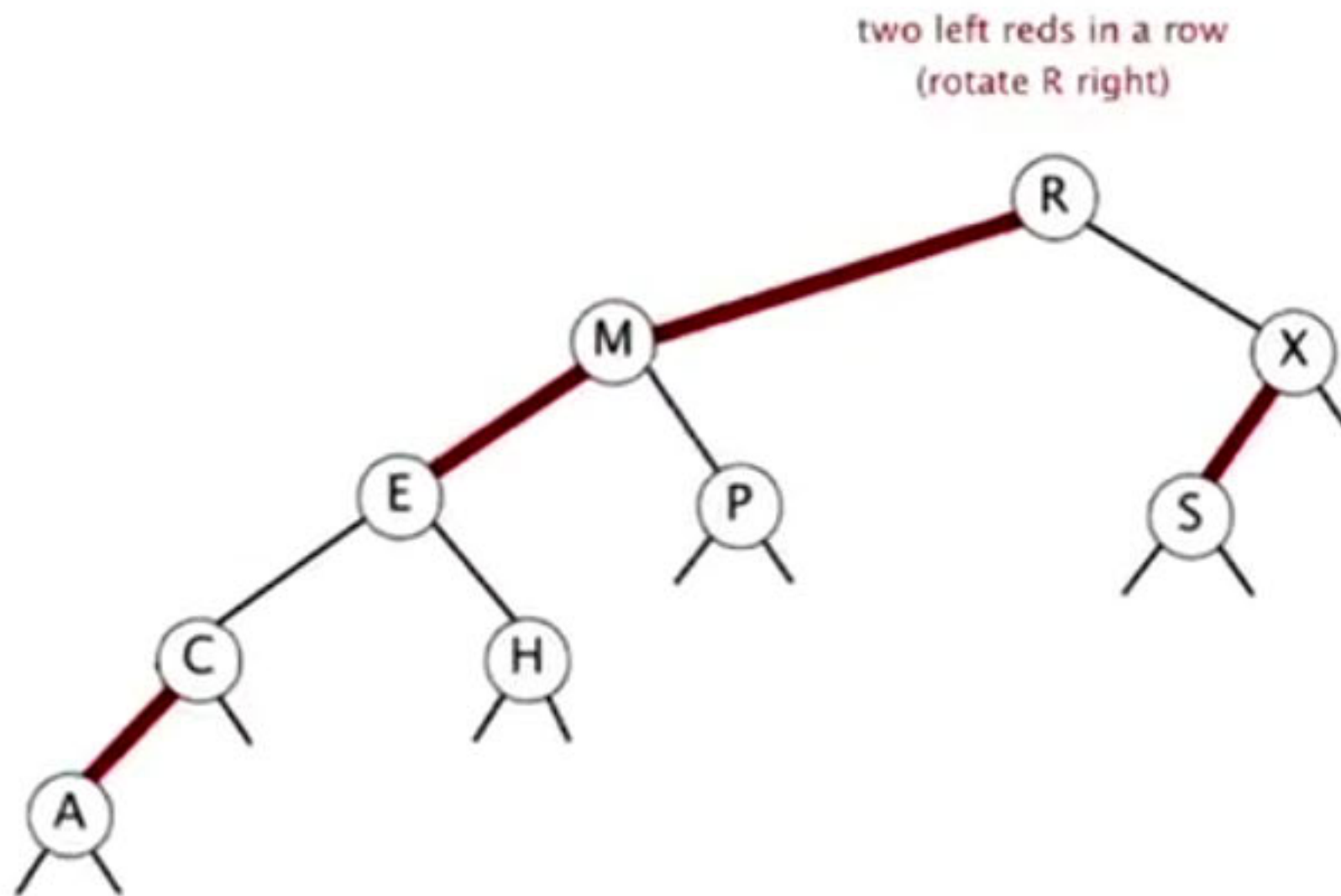
## Red-black BST construction demo

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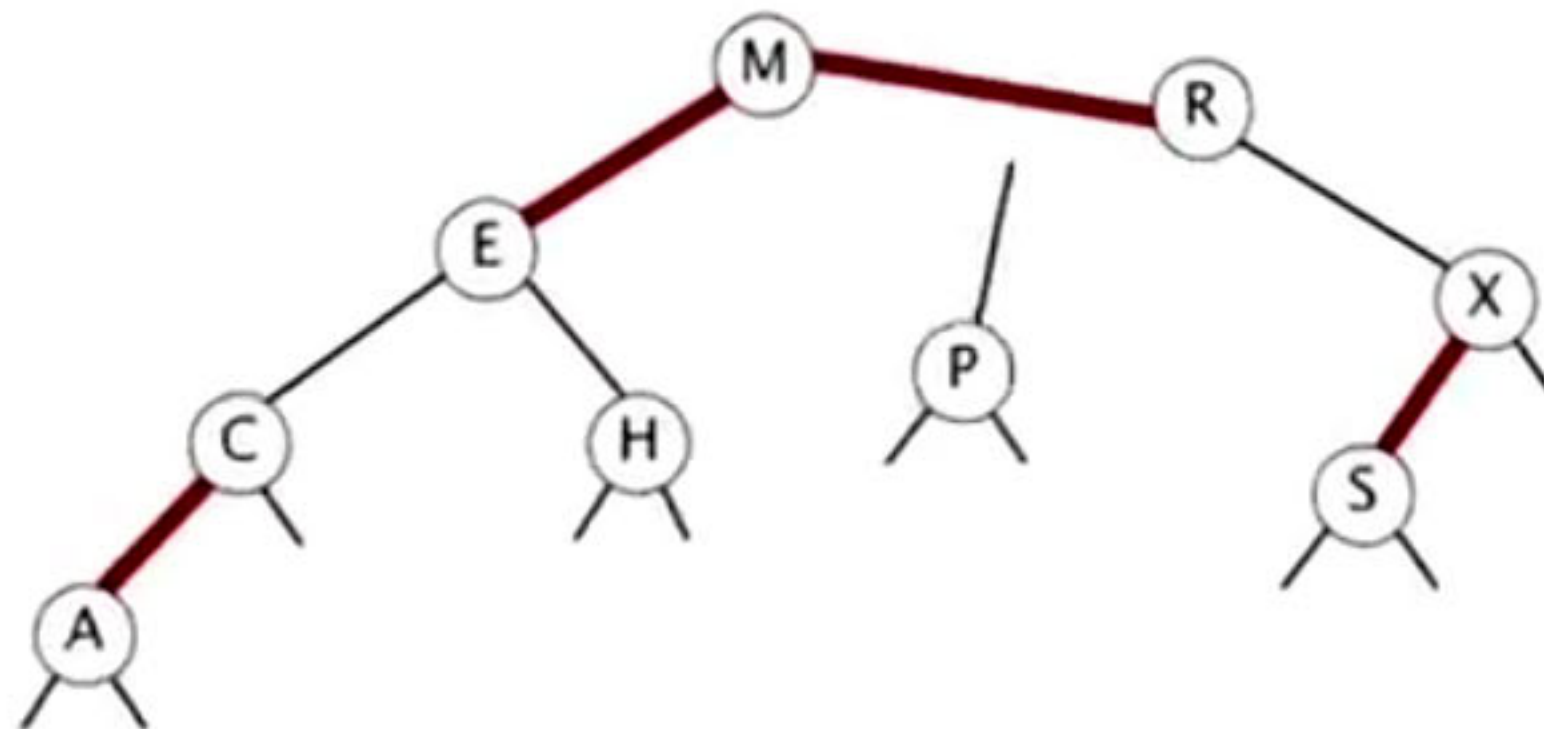
## Red-black BST construction demo

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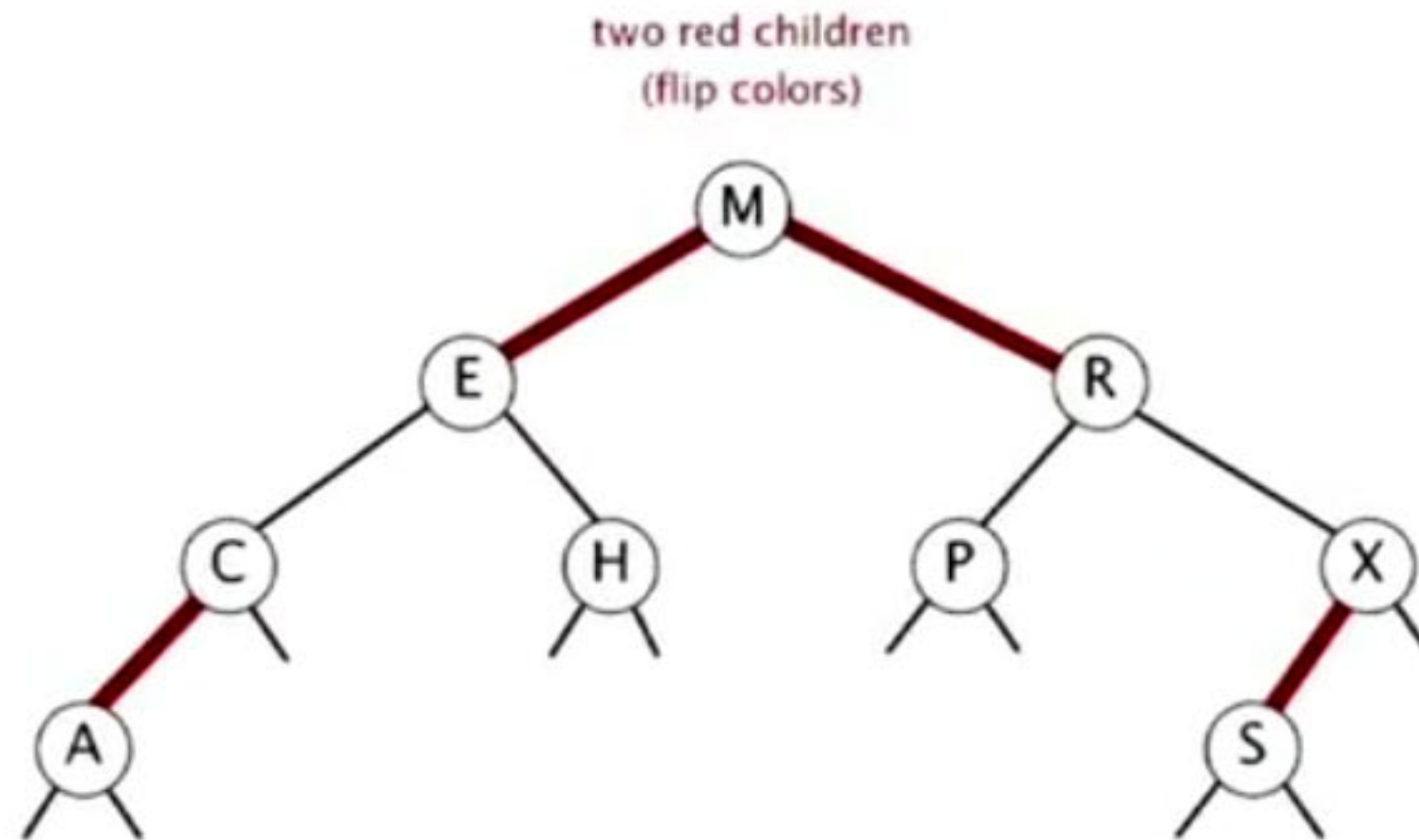
## Red-black BST construction demo

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## Red-black BST construction demo

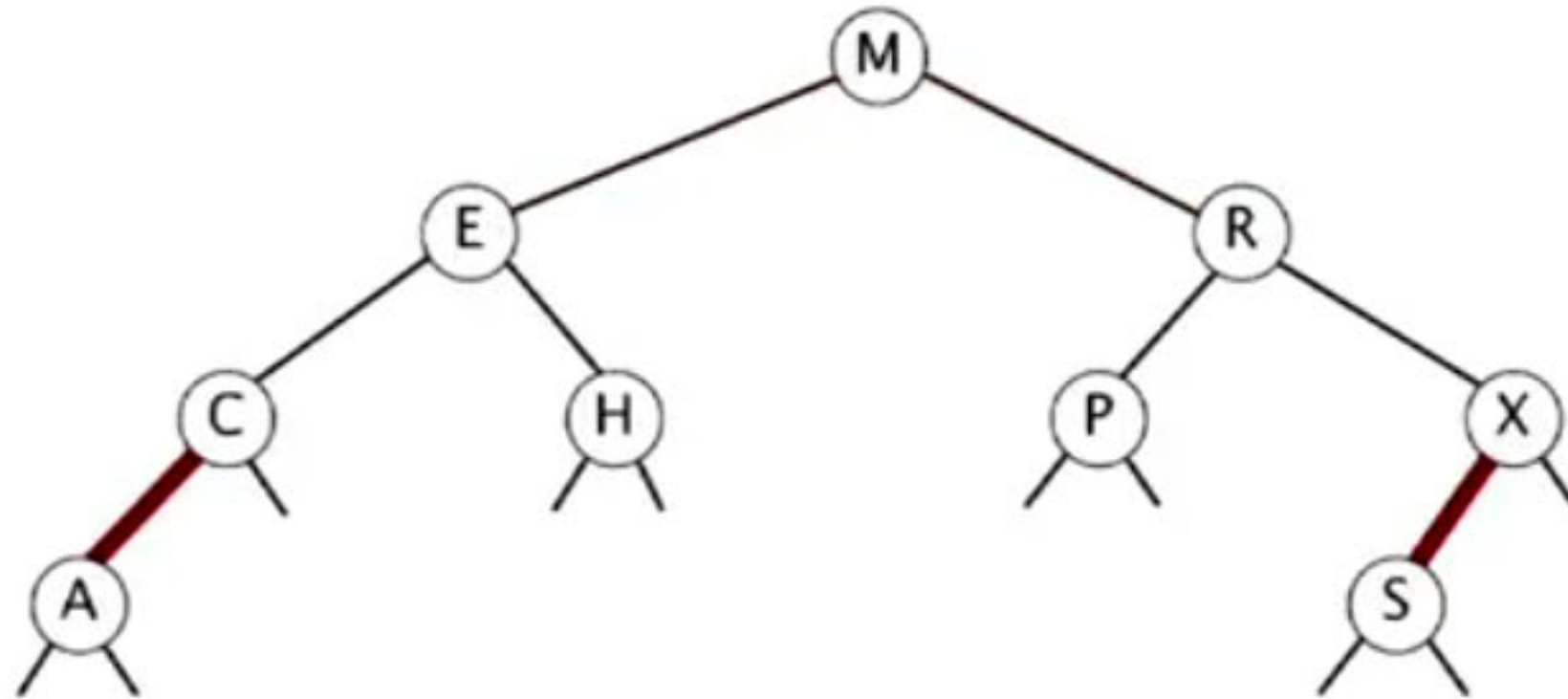
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## Red-black BST construction demo

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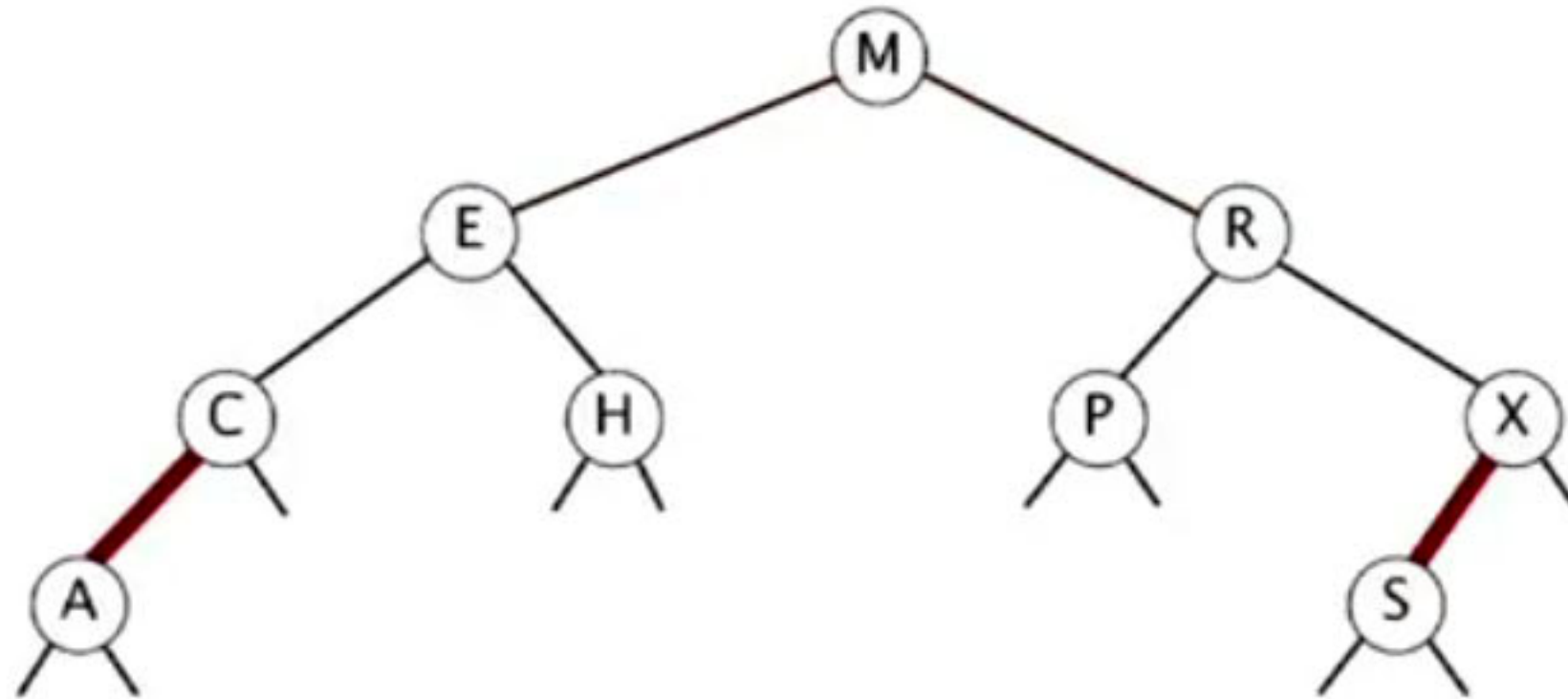
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## Red-black BST construction demo

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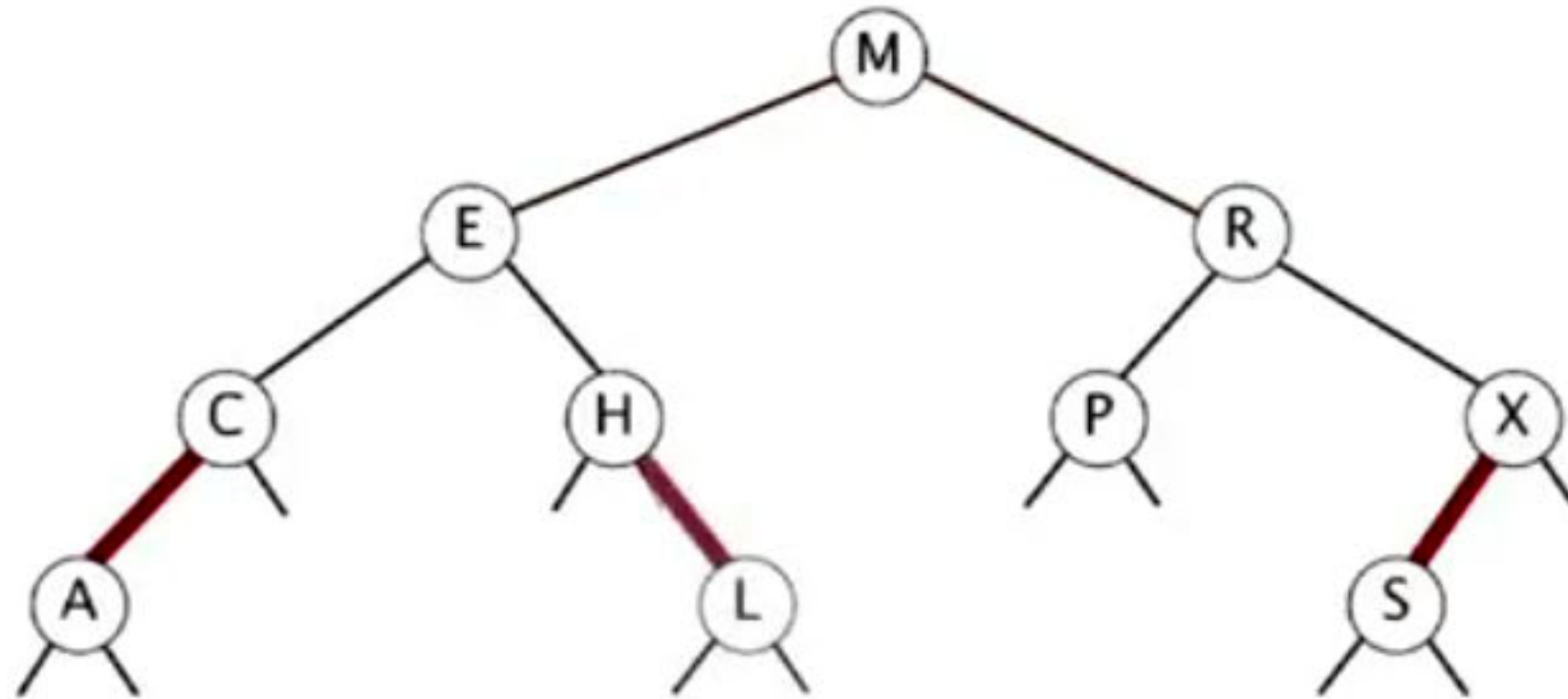
insert L



## Red-black BST construction demo

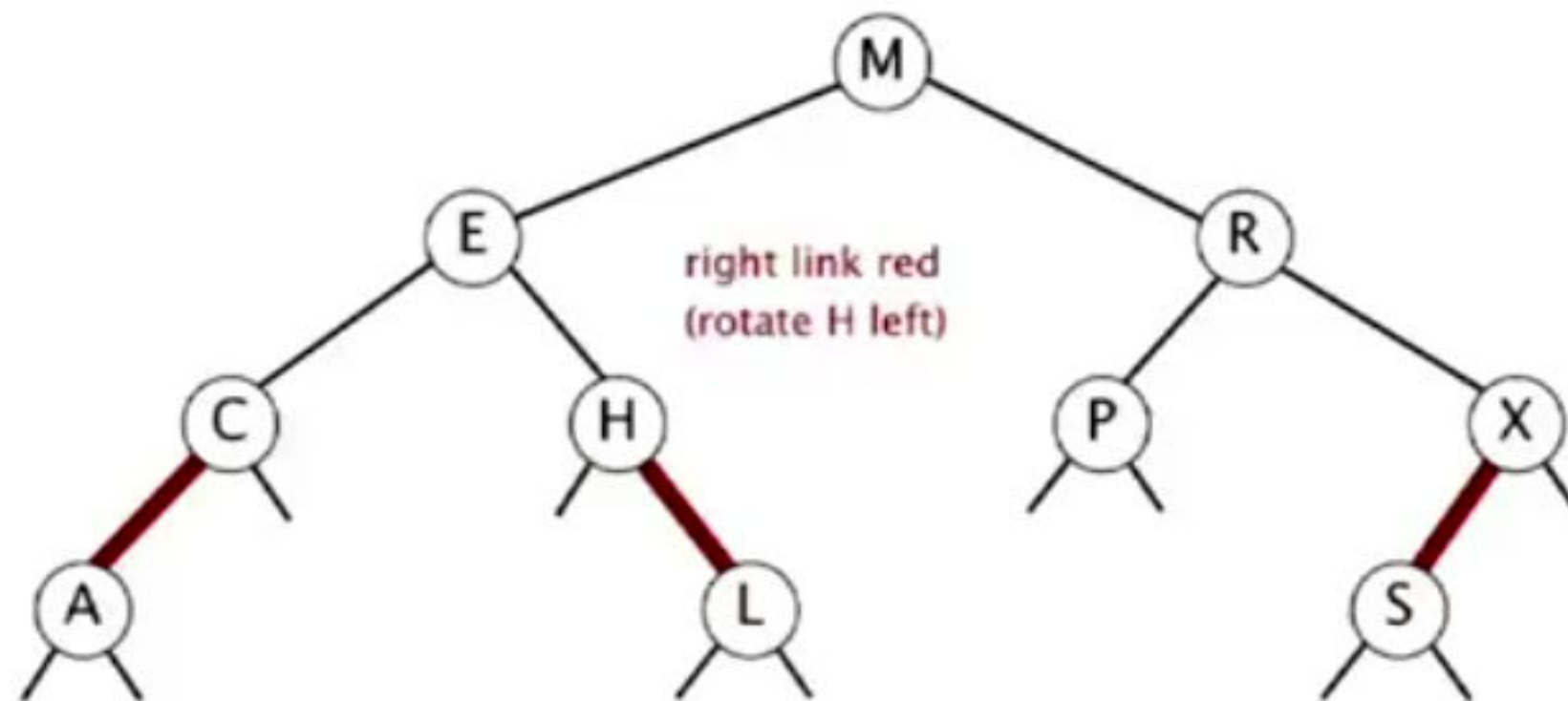
---

insert L



## Red-black BST construction demo

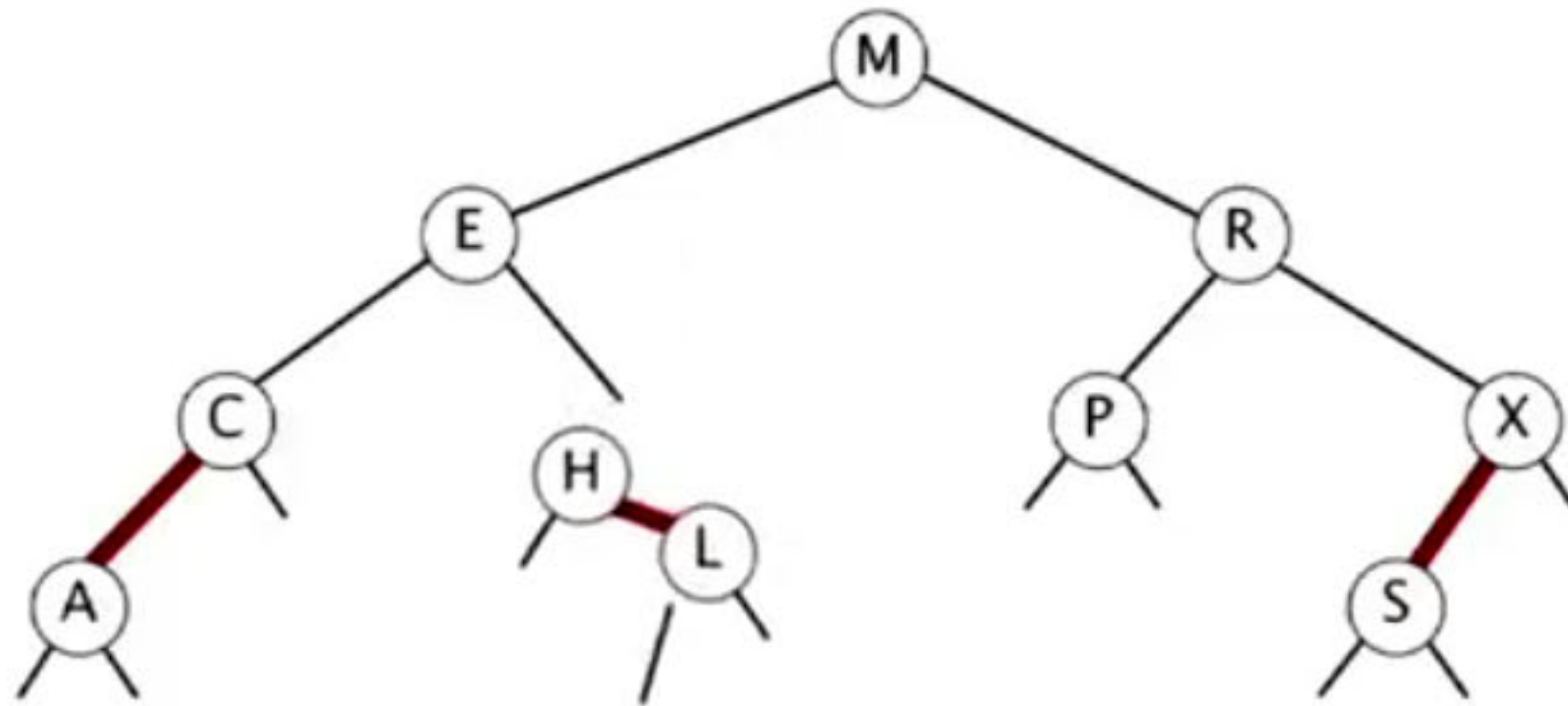
**insert L**





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## Red-black BST construction demo

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