

### Memory Drawing

#### Tree <Whatever>

root: 

--

 TNode <Whatever> \*  
 occupancy: 

0-1-2-3-4-5
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 long

#### TNode <Whatever>

data: name: 

--

 char [20] (from UCSDStudent)  
 Whatever: 

--

  
 number: 

--

 long (from UCSDStudent)  
 height: 

--

 long  
 balance: 

--

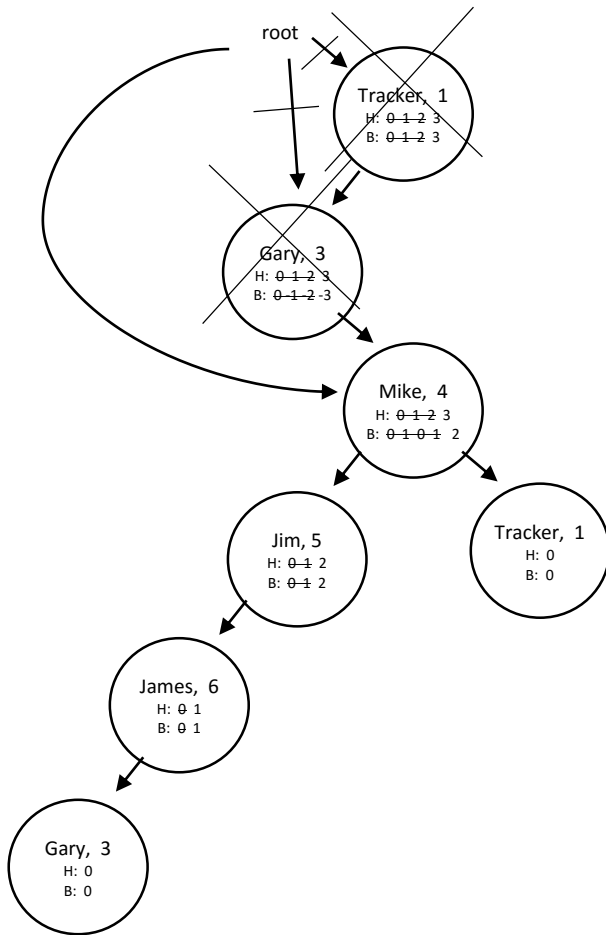
 long  
 left: 

--

 TNode <Whatever> \*  
 right: 

--

 TNode <Whatever> \*



### 64 Bit Word Disk Drawing

0:	0-16-80 144				root
16:	1-2-3-4-5				occupancy
Tr	a c	k e	r \0	1	name
\0 \0	\0 \0	\0 \0	\0 \0	0-1-2	height
				0-1-2	balance
				0 80	left
				0	right
				16	this_position
80:	G a	r y	\0 \0	\0 \0	
\0 \0	\0 \0	\0 \0	\0 \0	3	
				0-1-2	
				0-1-2	
				0	
				0 144	
				80	
144:	M i	i k	\0 \0	\0 \0	
\0 \0	\0 \0	\0 \0	\0 \0	4	
				0-1-2-3	
				0-1-0-1-2	
				0 208	
				272	
				144	
208:	J i	m \0	\0 \0	\0 \0	
\0 \0	\0 \0	\0 \0	\0 \0	5	
				0-1-2	
				0-1-2	
				0 336	
				0	
				208	
				272	
272:	T r	a c	k e	r \0	
\0 \0	\0 \0	\0 \0	\0 \0	1	
				0	
				0	
				0	
				0	
				272	
336:	J a	m e	s \0	\0 \0	
\0 \0	\0 \0	\0 \0	\0 \0	6	
				0-1	
				0-1	
				0 400	
				0	
				336	
400:	G a	r y	\0 \0	\0 \0	
\0 \0	\0 \0	\0 \0	\0 \0	3	
				0	
				0	
				0	
				0	
				400	