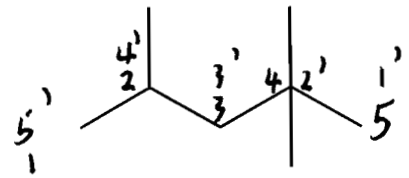


2,2,4-trimethylpentane

Longest continous chain.
= 5 carbons
⇒ base name = pentane

From Left to right.

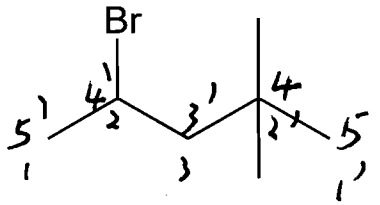
Location	substituents	name	how many
C2	$-CH_3$	methyl	1
C4	$-CH_3$	methyl	1
C4	$-CH_3$	methyl	1

From right to left.

C2'	$-CH_3$	methyl	1
C2'	$-CH_3$	methyl	1
C4'	$-CH_3$	methyl	1

C2' has two substituent] choose the direction
C2 has one substituent] from Right to left.

first point of difference!!



4-bromo-2,2-dimethylpentane

From Left to right.

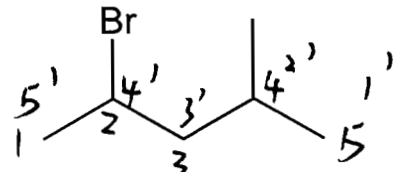
Location	Sub	Name	How many
C 2	$-Br$	bromo	1
C4	$-CH_3$	methyl	1
C4	$-CH_3$	methyl	1

From right to Left.

C 2'	$-CH_3$	methyl	1
C2'	$-CH_3$	methyl	1
C4'	$-Br$	Brom	1

C2' has one more substituents, C2' is the first point of difference!!

Direction is from right to Left!



2-bromo-4-methylpentane

From Left to right.

LOC	Sub	Name how many
C 2	-Br	bromo 1
C 4	$-CH_3$	methyl 1

From Right to Left

C 2'	$-CH_3$	methyl 1
C 4'	-Br	bromo 1

No point of difference can be found!!

both C 2 and C 2' have one substituent (Br or $-CH_3$)

Use ~~Alh~~ Alphabetical order

Bromo precede. Methyl