

**VIII.F ALKYL HALIDES OR HALOALKANES (RX; X = F, Cl, Br or I)**

The halogens are always treated as substituent, and have lower priority than all functional groups, but higher priority than alkanes. An example is shown below.

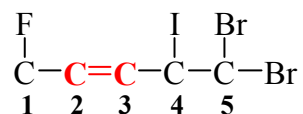
**Example**

1. Give the IUPAC name for  $\text{CH}_2\text{FCH}=\text{CHCHICBr}_2$

**OBSERVATIONS**

Redraw the structure  $\text{CH}_2\text{FCH}=\text{CHCHICBr}_2$

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Fill out the template

	OBSERVATION	IMPLICATION
Parent Group and Site	Alkene at C-2	2-...ene
Longest Carbon Chain/Ring	5 Carbons	pent..
# C=C or C≡C bonds and Site	1 C=C at C-2	2-pentene
Final Word		2-pentene
Substituents and Sites	F at C-1; I at C-4 2 Br's at C-5	1-fluoro 4-iodo 5,5-dibromo
Alphabetizing substituents		5,5-dibromo-1-fluoro-4-iodo

**SOLUTION** Compound is 5,5-dibromo-1-fluoro-4-iodo-2-pentene