

$$-5 | 13, -32 | 7, -3, | 17, 23, | 12, -35, | 19 \quad \text{size } 10$$

$$\text{root} = 4$$

$$-5$$

$$\begin{matrix} -3 \\ \swarrow \\ 19 \end{matrix}$$

$$\begin{matrix} 13 & -32 \\ 7 & -3, 17, 23 \\ 12 & -35 \\ 19 & \end{matrix}$$

$$-5 | 13, -32 | 7, 19, | 17, 23, | 12, -35 | -3$$

$$\text{root} = 3$$

$$\begin{matrix} 7 \\ \swarrow \\ 12 & -35 \end{matrix}$$

$$-5 | 13, -32 | 12, 19, | 17, 23 | 7, -35 | -3$$

$$\text{root} = 2$$

$$\begin{matrix} -32 \\ \downarrow \\ 17 & 23 \end{matrix}$$

$$-5 | 13, 23 | 12, 19 | 17, -32 | 7, -35 | -3$$

$$\text{root} = 1$$

$$\begin{matrix} 13 & 19 \\ \swarrow & \searrow \\ 12 & 19 & 12 & 13 \\ 7 & -35 & -3 & 7 & -35 & -3 \end{matrix}$$

$$-5 | 19, 23 | 12, 13 | 17, -32 | 7, -35 | -3$$

$$\text{root} = 0$$

$$\begin{matrix} -5 \\ \swarrow \\ 19 & 23 \\ 12 & 13 & 12 & 13 \\ 7 & -35 & 7 & -35 & 7 & -35 & -3 \end{matrix}$$

$$23 \quad 17 \quad -32$$

$$-5 \quad -5 \quad -5$$

$$23 \quad 19 \quad 13 \quad 12 \quad 13 \quad 7 \quad -35 \quad -3$$

$$23 | 19, 17 | 12, 13 | -5, -32 | 7, -35 | -3$$

$$23 \quad 19 \quad 17 \quad 12 \quad 13 \quad -5 \quad -32 \quad 7 \quad -35 \quad -3$$

$$\Rightarrow -3 \mid 19 \quad 17 \mid 12 \quad 13 \mid -5 \quad -32 \mid 7 \quad -35 \not\mid 23$$

$$\begin{array}{c} 19 \\ 17 \\ 13 \\ 12 \end{array} \leftarrow -3$$

$$19 \quad 17 \quad 13 \quad 12 \quad -5 \quad -32$$

$$7 \quad -35$$

$$19 \\ 17 \\ 13 \\ 12 \quad -3 \quad -5 \quad -32 \\ 7 \quad -35$$

$$\Rightarrow 19 \mid 13 \quad 17 \mid 12 \quad -3 \mid -5 \quad -32 \mid 7 \quad -35 \not\mid 23$$

$$\Rightarrow -35 \mid 13 \quad 17 \mid 12 \quad -3 \mid -5 \quad \cancel{-32} \mid 7 \not\mid 19 \quad 23$$

$$\begin{array}{c} 17 \\ 13 \\ 12 \end{array} \leftarrow -3$$

$$13 \quad 17 \quad 12 \quad -3 \quad -5 \quad -32$$

$$7$$

$$\Rightarrow 17 \mid 13 \quad -5 \mid 12 \quad -3 \mid -35 \quad \cancel{-32} \mid 7 \not\mid 19 \quad 23$$

$$\Rightarrow 7 \mid 13 \quad -5 \mid 12 \quad -3 \mid -35 \quad -32 \not\mid 17 \quad 19 \quad 23$$

$$\begin{array}{c} 13 \\ 12 \end{array} \leftarrow -3$$

$$13 \quad 12 \quad -5 \mid 7 \quad -3 \mid -35 \quad -32 \mid 17 \quad 19 \quad 23$$

$$-32 \quad \dots \quad -35 \not\mid 13 \quad 17 \quad 19 \quad 23$$

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