

If we keep using  $i \leq n$

$$\begin{array}{l} list[4] = 9//4 = 2 \\ 7//3 = 2 \\ 5//2 = 2 \\ 3//2 = 3 \end{array} \quad \left. \vphantom{\begin{array}{l} list[4] = 9//4 = 2 \\ 7//3 = 2 \\ 5//2 = 2 \\ 3//2 = 3 \end{array}} \right\} = 24$$

$$\begin{array}{l} list[5] = 9//5 = 1 \\ 8//4 = 2 \\ 6//3 = 2 \\ 4//2 = 2 \\ 2//1 = 2 \end{array} \quad \left. \vphantom{\begin{array}{l} list[5] = 9//5 = 1 \\ 8//4 = 2 \\ 6//3 = 2 \\ 4//2 = 2 \\ 2//1 = 2 \end{array}} \right\} = 16 \quad \left. \vphantom{\begin{array}{l} list[5] = 9//5 = 1 \\ 8//4 = 2 \\ 6//3 = 2 \\ 4//2 = 2 \\ 2//1 = 2 \end{array}} \right\} \text{less than } 27$$

$$\begin{array}{l} list[6] = 9//6 = 1 \\ 8//5 = 1 \\ 7//4 = 1 \\ 6//3 = 2 \\ 4//2 = 2 \\ 2//1 = 2 \end{array} \quad \left. \vphantom{\begin{array}{l} list[6] = 9//6 = 1 \\ 8//5 = 1 \\ 7//4 = 1 \\ 6//3 = 2 \\ 4//2 = 2 \\ 2//1 = 2 \end{array}} \right\} = 8$$