f(6) 10 £57) J(8) J(10) MONINO 8 feet o war flow

Factorial of 5 is 120

rision is useful in:

Mathematical computations: Factorial, Fibonacci series, Power func
Data structures: Traversing trees, graphs, and linked lists.

Divide and Congres algorithms:

Merge Sort

Quick Sort

Binary Search

Backtracking problems:

PR(6,10) if (start > end)
 return;
printf("%d\n", start);
printRange(start + 1, end); > (01,8,19 8K(0,10) - PR(11,10) - PR(11,10) q Addrage ( Short land) 5 to if (stort > end) return 0;  $\begin{array}{c} \text{if } (\text{short} > \text{end}) \\ \text{return 0}; \\ \text{veturn Attent + AR}(\text{short+1, end}); & 40 \\ \text{--} 5 + \text{Addlarge}(6,60); & 39 \\ \text{--} 6 + \text{AR}(7,10); & 27 \\ \text{--} 7 + \text{AR}(\frac{1}{2},10) \rightarrow 9+(0,10) \\ \text{--} 1 & \text{--} 10 + \text{--} 10 \\ \text{--} 1 & \text{--} 10 \\ \text{--} 10 \\$