## Best, Average and Wonst Cases

Example-1 Simple function with some order of growth for every input

int get Sum (int arrs[], int n)

int 8um = 0;

for (int i=0; Kn; itt)

8um = 8um + arrs[i];

9return 8um;

Time taken: Cin + (2) Order of growth: n

Example-2 Multiple orders of growths

Best case: Constant

Average case: Linear (Under the assumption that

Even and odd cases are

equally likely)

Worst case: Linear

int getsum (int avoi [], int n) [ [] (h ? (2==0))

if (n %2==0) netwn 0;

Exorple

int 8um = 0;

for (int i=0; i<n; i+t)

8um = 8um + arr(i];

return 8um;

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