Basica of Time and Space
Complexity

Alogeithm Analysix

Time Spece

Problem Statemen!

Q.5 sec

Vikash

Anieudth & Punca 33.5 sec.

C.P.U

SGHZ

C.P.U

SGHZ

3 X /024 SX 1024 X 1024 X 1024 x 1024 × /=24 ope per Sec Ops por Sec CPU Clock speed

Diferations

5 mc+A ( ) 2 mmg

10 ~ 3 /0 0 P8 3) a 8 des byogic Not alion Measure TC in terms of enough of iteration as N approches In I'm ity. J Ideas Con 24 det 8 and Co-efficients

Donly care about the

Highest degree

Sogn Dogn 

32 D 209232 + 1
209 n
4 209 n

Sog ~ =

[, 2093 3

Def Pactorial (x);

if x = = 1;

else

set of ) ( ... )

n=5 4 (n)  $, / \times \mathbb{S}$  $3\times2$   $3\times30$ SXQU= SXF(Y) FSY Call Stack 120  $\rightarrow$  5 了. (3) 0(可) S.C. D. (m) D. O. (m)

