



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35.

An Autonomous Institution

**Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A++’ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai**

COURSE NAME : OPERATING SYSTEMS

II YEAR/ IV SEMESTER

UNIT – IV FILE SYSTEMS

Topic: File Access Methods

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Access Methods

- *Sequential Access*

read next
write next
reset
no read after last write
(rewrite)

- *Direct Access* – file is fixed length **logical records**

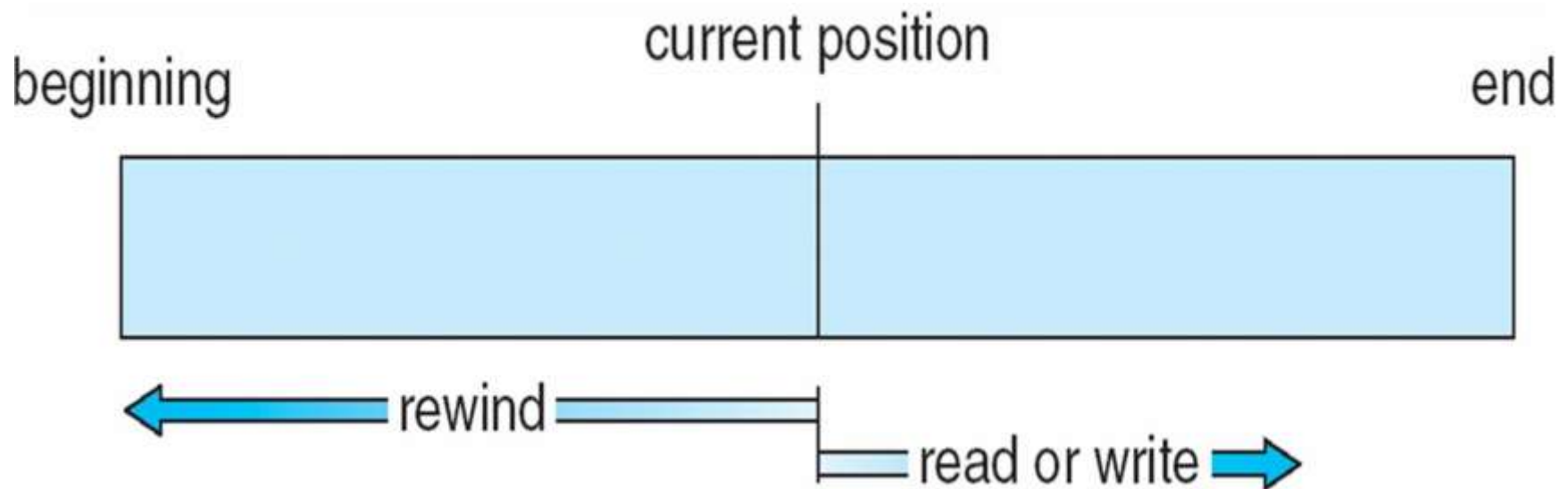
read n
write n
position to n
read next
write next
rewrite n

n = **relative block number**

- Relative block numbers allow OS to decide where file should be placed



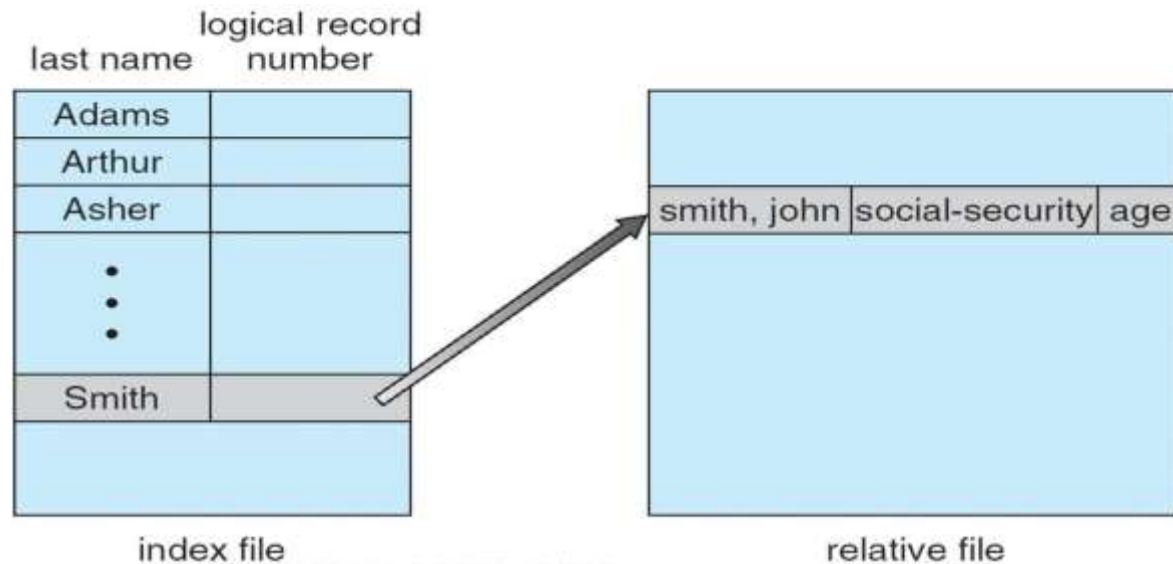
Sequential-access File





Simulation of Sequential Access on Direct-access File & other access methods

sequential access	implementation for direct access
<i>reset</i>	<i>cp = 0;</i>
<i>read next</i>	<i>read cp;</i> <i>cp = cp + 1;</i>
<i>write next</i>	<i>write cp;</i> <i>cp = cp + 1;</i>





Summarization

5/6/2025

23CST202/OPERATING
SYSTEMS/FILE Access
Methods/Dr.B.Vinodhini/ASP/CSE