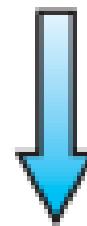application programs

⬇
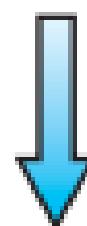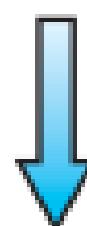
logical file system
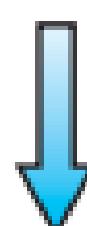
⬇

file-organization module

⬇

basic file system

⬇

I/O control

⬇

devices