



# Camelot on small devices

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## MIDP: Java for small devices

- MIDP = Mobile Information Device Profile
- Java class hierarchy for small devices (PDAs, mobile phones, . . . )
- Much simpler than standard Java classes (no floating-point support, no file handling, . . . )
- Some new classes (simplified GUI, persistent databases, . . . )
- All applications (known as MIDLETs) must interact with the user via a GUI

## CLDC: JVMs for small devices

- CLDC = Connected Limited Device Configuration
- Specification of JVM for resource-constrained devices
- 16- or 32-bit CPU; 16 MHz or greater; low power consumption (batteries)
- At least 192Kb of memory for Java platform (32k or more for heap)
- Intermittent network connection
- Verification is partially performed before distributing class files
- For example, KVM: available for many PDAs and mobile phones

## An example

- We will demonstrate a Camelot program running on Sun's MIDP emulator (and perhaps also on a real PDA)
- The example is a simple database program
- A list of pairs of strings (eg, names and telephone numbers) is displayed on the screen
- The list can be sorted (in place) in order of the left-hand items
- The left and right items in the list cells can be swapped (in place)