Memory Hierarchy

| | Access Time | Approximate Size |
|------------|--------------------|-------------------|
| Register | 1 cycle | < 100s of bytes |
| L1 Cache | A few cycles | tens of kilobytes |
| L2 Cache | 2-10 cycles | 512 KB (or more) |
| Memory | hundreds of cycles | several GB |
| Hard Drive | millions of cycles | Many GB to TB |