1. 1MB can hold how many integers?

1MB= 1024 KB

1KB = 1024 byte

1024\*1024/4= 1048576/4=262144

2. What is high level language and low-level language?

Human languages: Chinese, English

High level language: C++, java

Low level language: assembly is the normal language

Machine language: binary.

3. Multithreading, Mutex & Semaphore

Multithreading: share memory in the process (data, code, heap), each threading has own stack,

register,

mutex: have one lock

semaphore: have more than one lock.

Mutex and semaphore work between threads or process.   
4. Virtual Memory (Paging)

Each process has 4G memory, have many partitions(4K). Each partition address on virtual memory and physical memory saved to the page table.

5. What is heap, stack in memory?

Heap: dynamic memory, shared memory.

Stack: static memory, for each thread.

6. How to allocate array? How to allocate linked list?

Array: Continues

Linked list: could link to different location.

7. How to delete the entire linked list?

Delete the value in the linked list and unlink it.

8. What is "buffer"?

Like input, waiting for something.

9. What is Object Oriented Programming?

Everything is class. Constructor

10. What is inheritance?

Son has all the features of the father.

Call son’s construction, also will call the father’s constructor.

11. What is polymorphism? (Function overloading and overriding?)

Some type of things. Dog: jingba or heibei .

12. What is Standard Template Library (STL) in C++?

Download other people’s library, when you use it , just include the library and use their functions.