一、Java基础（非Jave程序员可略过）

1. HashTable 和 HashMap的区别

2. String 和StringBuffer的区别

3.final,finally,finalize的区别

4. static,final,const的区别

二、基础知识

派生子进程的系统凋用是什么？

如何使某进程使用某个固定的cpu?

进程、线程、协程的区别是什么？

简単解释什么是死锁？

进程间通信有几种方法？

简述tcp/udp的逐别

简述tcp三次握手

三、编程题（任选两题作答，多答加分）

1．编个函数，输入为一个整数，判断其是否为2的幂

2. 用reduce函数实现map函数

3. 给定一个生成1~5整数随机数的函数，实现一个生成1~7整数随机数

4. 求小于50的素数

四、必答题

1.修改或增加一个字符，使下列代码输出20个减号，你能想到几种方法

Int n=20;

For(int i=0,i<n,i- -){

Printf(“-”);

}

2请写出下列程序的支行结果

Int n[]={0x48

0x65,0x6C,0x6C,

0x6F,0x2C,0x20,

0x77.0x6F,0x72,

0x6C,0x64,0x21,

0x0A,0x00 }

Main(n)｛putchar

(\*m)!=’\0’?main

(m++);exit(n++);｝

3.对一个程序来说，将下列要求按重要程度排序:

可运行

可编译

可读

可重用

可维护

可测试

4.简单解释下列名河（不了解的可忽略）：

SICP,APUE,龙书，混凝土，CS，CC2E,DDD

FP, OOP, KISS, DRY, GOF, XP,

JIT, GC, RMS, DFS, BFS, FSM

FQDN, RFC, UTC, LUG, MIT, MVP,

五、附加题，可不作答，选答加分,

You need to check

1. You need to check that your friend. Bob has your correct phone number, but you cannot ask

him directly. You must write a the question on a card which and give it to Eve who will take the card to Bob and return the answer to you. What must you write on the card, besides the question,

to ensure Bob can encode the message so that Eve cannot read your phone number?

2.How are cookies passed in the HTTP protocol?

3.Write a regular expression which matches a email address.

4.write a function f(a,b) which takes two character string arguments and returns a string containing only the characters found in both strings in the order of a Write a version which is order N-squared and one which is order N.

5.Write some code to reverse a string.

6.Given two binary trees, write a compare function to check if they are equal or not. Being equal means that they have the same value and same structure.

7.Write a function to find the middle node of a single link list.

8.What sort would you use if you had a large data set on disk and a small amount of ram to work with?

9.Write a program to find depth of binary search tree without using recursion.