习题5

一、

1.D 2.C 3.C 4.D 5.D 6.D 7.D 8.B 9.B 10.D

二、

1、6789054321

2、14

3、8 2 3 4 4 6 2 1（注意：循环条件是\*p!=\*q，而不是p!=q）

4、z

yz

xyz

三、

1、(1)new int[N] (2) \*sum=\*count=0 (3)a[i] (4)\*sum +\*p

2、(1)s +len -1 (2)\*p (3) p-- (4)\*q = '\0'

3、(1)max = s (2) \*p (3)max = p (4)t \* 10 + (\*p - '0')

四、

1、

#include <iostream>

using namespace std;

int main()

{

const int MAX\_LENGTH = 100;

char str[MAX\_LENGTH];

cout << "请输入字符串: ";

gets(str);

char\* ptr = str;

int count = 0;

while (\*ptr != '\0')

{

if (\*ptr == 't' || \*ptr == 'T')

{

\*ptr = (\*ptr == 't') ? 'e' : 'E';

count++;

}

ptr++;

}

cout << "替换后的字符串: " << str << endl;

cout << "替换字符的个数: " << count << endl;

system("pause");

return 0;

}

2、

#include <iostream>

using namespace std;

int main()

{

const int MAX\_LENGTH = 100;

char str[MAX\_LENGTH];

cout << "请输入字符串: ";

cin>>str;

char\* ptr = str;

int uppercaseCount = 0;

int lowercaseCount = 0;

int digitCount = 0;

int otherCount = 0;

while (\*ptr != '\0')

{

if (\*ptr >= 'A' && \*ptr <= 'Z')

uppercaseCount++;

else if (\*ptr >= 'a' && \*ptr <= 'z')

lowercaseCount++;

else if (\*ptr >= '0' && \*ptr <= '9')

digitCount++;

else

otherCount++;

ptr++;

}

cout << "大写字母个数: " << uppercaseCount << endl;

cout << "小写字母个数: " << lowercaseCount << endl;

cout << "数字字符个数: " << digitCount << endl;

cout << "其他字符个数: " << otherCount << endl;

system("pause");

return 0;

}

3、

#include <iostream>

using namespace std;

int main()

{

int i=0;

const int MAX\_LENGTH = 100;

char \*str1=new char[MAX\_LENGTH],\*str2=new char[MAX\_LENGTH];

cout << "请输入字符串str1: ";

cin>>str1;

while(\*str1!='\0')

{

\*str2++=\*str1++;

i++;

}

\*str2='\0';

str2=str2-i;

puts(str2);

system("pause");

return 0;

}

4、

#include <iostream>

#include <cstring>

using namespace std;

const int MAX\_LENGTH = 100;

int main()

{

char \*str;

char \*thirdChars;

thirdChars=new char[6];

for (int i = 0; i < 5; i++)

{

str=new char[MAX\_LENGTH];

cin>>str;

if(strlen(str)>=3)

\*thirdChars=\*(str+2);

else

\*thirdChars=' ';

thirdChars++;

}

\*thirdChars='\0';

cout << "新字符串：" << thirdChars-5 << endl;

system("pause");

return 0;

}