数据结构第四章作业

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4.4

s = ‘THIS SAMPLE IS’

t = ‘A GOOD’

u = ‘ONE’

v = ‘THIS SAMPLE IS A GOOD ONE’’

StrLength(s)=14

Index(v,g)=3

Index(u,g)=0

4.5

t=’THESE ARE BOOKS’

v=’YXY’

u=’XWXWXW’

（没有换行）

4.6

s=’(XYZ)+\*’

y=SubString(s,3,1)

pl=SubString(s,6,1)

ml=SubString(s,7,1)

Replace(s,pl,mu)

Replace(s,y,pl)

t=Concat(SubString(s,1,6),y)

4.15

void StringAssign(&T,char []){

T=new char[strlen(chars)+10];

memcpy(T,chars,strlen(chars+1));

return;

}

4.16

int StrCompare(S,T){

int lens=strlen(S),lent=strlen(T);

int len=min(lens,lent);

for(int i=0;i<len;i++){

if(s[i]<t[i]) return 1;

else if(s[i]>t[i]) return -1;

}

if(lens<lent) return 1;

else if(lens>lent) return -1;

else return 0;

}

4.25

void replace(&S,T,V){

char \*ch=new char[strlen(S)/strlen(T)\*(1+strlen(V))];

int cnt=0;

for(int i=0;i<strlen(S);i++){

int flag=0;

for(int j=I;j<i+strlen(T);j++){

if(S[j]!=T[j-i]){flag=1;break;}

}

if(flag) ch[cnt++]=s[i];

else{

for(int j=I;j<i+strlen(V);j++) ch[cnt++]=V[j];

i+=strlen(T)-1;

}

}

delete S;

S=new char[strlen(ch)+5];

memcpy(S,ch,strlen(ch)+1);

return;

}