9.2

Actual argument

Automatic variable

Int

\*

Parameter name

Scope of variables

Recursion

Static

Function declaration

Automatic variable

9.8

F

F ;

F declaration

F ;

F int b

T

F int b

9.15

100

9.10

#include"stdio.h"

#include"math.h"

#include"stdlib.h"

void getEdge(float\*, float\*, float\*);

float circumference(float, float, float);

float calcArea(float, float, float);

void main(void)

{

float a, b, c, circ, area;

getEdges(&a, &b, &c);

circ = circumference(a, b, c);

area = calcArea(a, b, c, circ / 2);

printf("Circumference=%f\n Area=%f\n", circ, area);

}

void getEdges(float\*pa, float\*pb, float\*pc)

{

printf("Please innput the edges of the triangle:\na=");

scanf\_s("%f", pa);

printf("b=");

scanf\_s("f", pb);

printf("c=");

scanf\_s("f", pc);

if (\*pa + \*pb <= \*pc || \*pa + \*pc <= \*pb || \*pb + \*pc <= \*pa)

{

printf("\nInvalid data!\n");

exit(1);

}

}

float circumference(float a, float b, float c)

{

return a + b + c;

}

float circumference(float a, float b, float c)

{

return sqrt((s - a)\*(s - b)\*(s - c));

}

9.15

#include"stdio.h"

void stringCopy(char\*, char\*);

int stringCompare(char\*, char\*);

void stringConnect(char\*, char\*);

void main()

{

char\*s1 = "This is a string1";

char s2[50];

char\*s3 = "This is a string2";

stringCopy(s1, s2);

printf("%s\n", s2);

printf("%d\n",stringCompare(s1, s3));

stringConnect(s2, s3);

printf("%s\n", s2);

}

void stringCopy(char\*a, char\*b)

{

int i;

for (i=0; a[i] != '\0'; i++)

b[i] = a[i];

b[i] = a[i];

}

int stringCompare(char\*s1, char\*s2)

{

int i;

for (i = 0; s1[i] != '\0' && s2[i] != '\0'; i++)

{

if (s1[i] < s2[i])

return 1;

else if (s1[i] > s2[i])

return -1;

}

if (s1[i] == '\0' && s2[i] == '\0')

return 0;

else if (s1[i] == '\0')

return 1;

else

return -1;

}

void stringConnect(char\*s1, char\*s2)

{

int i = 0;

int j;

while (s1[i] != '\0')

i++;

for (j = 0; s2[j] != '\0'; j++)

s1[i + j] = s2[j];

s1[i + j] = s2[j];

}