**2017c语言期末试卷答案**

**一、**

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

二、

1.

问题1：3

问题2：5#7

2.

问题3：k1=7,k2=10,

3.

问题4：

1 2 5

14 1 3

17 12 1

4.

问题5：R L J G E

试题三

1. （1）prime(i)&&prime(i-2) (2)if(x%i==0) return 0 (3)return 1
2. (4)\*p (5)m/=n (6)Dec2N(d,b,x)
3. (7)a[i][i] (8)j<i-1 (9)a[i-1][j]+a[i-1][j-1] (10)a[i][j]

试题四、

1.#include <stdio.h>

int main()

{

int n,num=0,i;

double a[100],sum=1;

scanf("%d",&n);

for (i=0;i<n;i++)

{

scanf("%lf",&a[i]);

if (a[i]!=0)

{

num++;

sum\*=a[i];

}

}

printf("%f %d",sum,num);

return 0;

}

2.#include <stdio.h>

#include <string.h>

int usename(char \*s);

int main()

{

char a[100];

gets(a);

if (usename(a))

puts(a);

else

printf ("%s ERROR\n",a);

return 0;

}

int usename(char \*s)

{

int len,i;

if (len<6 || len>18)

return 0;

if (!((s[0]>='a' && s[0]<='z') || (s[0]>='A' && s[0]<='Z')))

return 0;

for (i=1;i<len;i++)

{

if (!((s[i]>='a' && s[i]<='z') || (s[i]>='A' && s[i]<='Z') || s[i]=='\_' || (s[i]>='0' && s[i]<='9')))

return 0;

}

return 1;

}

3.#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#define N 40

#define M 3

#define point (\*p) //这条语句相当于改名字，即在程序中遇到point时改成（\*p)

struct student{

char num[10];

char name[20];

double score[M];

double average;

}stu[N];

void input (struct student \*p);

void process(struct student \*p);

void save (FILE \*fp,struct student \*p);

int main()

{

int i;

for (i=0;i<1;i++)

{

input (&stu[i]);

process (&stu[i]);

save (fopen("shuju.txt","w"),&stu[i]);

}

return 0;

}

void input (struct student \*p)

{

int i;

scanf ("%s%\*c%s",point.num,point.name);

for (i=0;i<3;i++)

{

scanf ("%lf",&(point.score[i]));

}

}

void process(struct student \*p)

{

point.average=(point.score[0]+point.score[1]+point.score[2])/3;

}

void save (FILE \*fp,struct student \*p)

{

int i;

if (fp==NULL)

{

exit(0);

}

fprintf(fp,"%s %s ",point.num,point.name);

for (i=0;i<3;i++)

{

fprintf (fp,"%f ",point.score[i]);

}

fprintf (fp,"%f",point.average);

fclose(fp);

}