SoftwareLab3

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Contents

Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

Chapter 2

File Documentation

2.1 new.c File Reference

```
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
```

Macros

- #define number 50

Functions

- void sets (int a[], int K)
- void create ()
- int main (void)

2.1.1 Macro Definition Documentation

2.1.1.1 #define number 50

2.1.2 Function Documentation

2.1.2.1 void create ( )

```
36 {
37     int b[4];
38     int *a;
39     a = (int*)malloc(number*sizeof(int));
40     int i,j,k,l,K;
41     char c;
42     for(i=0;i<number;i++)
43         scanf("%d%c",&a[i],&c);
44     //srand ( time(NULL) );
45     //for(i=0;i<number;i++)
46     //{
47     //  a[i]= (int)pow(-1,rand()%2)*(rand() % number + 1);
48     //}
49 //  for(i=0;i<number;i++)
50 //          fprintf(f,"%d\n,",a[i]);
51     scanf("%d",&K);
52     for(i=0;i<number;i++)
53     {
54         b[0]=a[i];
55         for(j=i+1;j<number;j++)
```

```
56          {
57              b[1]=a[j];
58              for(k=j+1;k<number;k++)
59              {
60                  b[2]=a[k];
61                  for(l=k+1;l<number;l++)
62                  {
63                      b[3]=a[l];
64                      //printf("%d %d %d %d\n",b[0],b[1],b[2],b[3]);
65                      sets(b,K);
66                  }
67              }
68          }
69      }
70
71  }
```

2.1.2.2 int main (void)

```
74  {
75      create();
76      return 0;
77  }
```

2.1.2.3 void sets (int *a[]*, int *K*)

```
6  {
7          int i,j,k,t,prod,temp[2];
8          for(i=0;i<3;i++)
9          {
10             for(j=i+1;j<4;j++)
11             {
12                 prod=1;
13                 t=0;
14                 for(k=0;k<4;k++)
15                 {
16                     if(k!=i&&k!=j)
17                     {
18                         prod=prod*a[k];
19                         temp[t]=k;
20                         t++;
21                     }
22                 }
23                 if(a[i]+a[j]+prod<= K)
24                 {
25                     //printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[0]],a[temp[1]]);
26                     //printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[1]],a[temp[0]]);
27                     //printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[0]],a[temp[1]]);
28                     //printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[1]],a[temp[0]]);
29                 }
30             }
31         }
32 }
```

2.2 new2.c File Reference

```
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
```

Macros

- #define number 50

Functions

- int compare (int arr[4])

- void sets (int a[], int K)
- void create ()
- int main (void)

Variables

- int count =0
- int base [4000000][4]

2.2.1 Macro Definition Documentation

2.2.1.1 #define number 50

2.2.2 Function Documentation

2.2.2.1 int compare (int *arr[4]*)

```
9 {
10      int i;
11
12      for(i=0; i<count; i++)
13      {
14          if(base[i][0]==arr[0]&&base[i][1]==arr[1]&&base[i][2]==arr[2]&&
      base[i][3]==arr[3])
15              return 1;
16      }
17
18      for(i=0; i<4; i++)
19          base[count][i]=arr[i];
20      count++;
21      return 0;
22
23 }
```

2.2.2.2 void create ( )

```
56 {
57      int b[4],action;
58      int *a;
59      a = (int*)malloc(number*sizeof(int));
60      int i,j,k,l,K;
61      char c;
62      //for(i=0;i<number;i++)
63      //  scanf("%d%c",&a[i],&c);
64      srand (time(NULL));
65      for(i=0; i<number; i++)
66      {
67          a[i]= (int)pow(-1,rand()%2)*(rand() % number + 1);
68      }
69      for(i=0; i<number; i++)
70          printf("%d,",a[i]);
71      scanf("%d",&K);
72      for(i=0; i<number; i++)
73      {
74          b[0]=a[i];
75          for(j=i+1; j<number; j++)
76          {
77              b[1]=a[j];
78              for(k=j+1; k<number; k++)
79              {
80                  b[2]=a[k];
81                  for(l=k+1; l<number; l++)
82                  {
83                      b[3]=a[l];
84                      //printf("%d %d %d %d\n",b[0],b[1],b[2],b[3]);
85                      action = compare(b);
86                      if(action==0)
87                          sets(b,K);
88                  }
89              }
90          }
91      }
```

```
92
93 }
```

2.2.2.3 int main (void)

```
96 {
97     int i,j;
98     create();
99     //printf("stored");
100     //for(i=0;i<count;i++)
101     //{
102     //  for(j=0;j<4;j++)
103     //      printf("%d,",base[i][j]);
104     //  printf("\n");
105     //}
106     return 0;
107 }
```

2.2.2.4 void sets (int *a[]*, int *K*)

```
26 {
27     int i,j,k,t,prod,temp[2];
28     for(i=0; i<3; i++)
29     {
30         for(j=i+1; j<4; j++)
31         {
32             prod=1;
33             t=0;
34             for(k=0; k<4; k++)
35             {
36                 if(k!=i&&k!=j)
37                 {
38                     prod=prod*a[k];
39                     temp[t]=k;
40                     t++;
41                 }
42             }
43             if(a[i]+a[j]+prod<= K)
44             {
45                 //printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[0]],a[temp[1]]);
46                 //printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[1]],a[temp[0]]);
47                 //printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[0]],a[temp[1]]);
48                 //printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[1]],a[temp[0]]);
49             }
50         }
51     }
52 }
```

2.2.3 Variable Documentation

2.2.3.1 int base[4000000][4]

2.2.3.2 int count =0

2.3 new3.c File Reference

```
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
```

Macros

- #define number 50

Functions

- int compare (int arr[4])
- void sets (int a[], int K)
- void create ()
- int main (void)

Variables

- int count =0
- int base [4000000][4]

2.3.1 Macro Definition Documentation

2.3.1.1 #define number 50

2.3.2 Function Documentation

2.3.2.1 int compare (int *arr[4]*)

```
9 {
10      int i;
11
12      for(i=0; i<count; i++)
13      {
14          if(base[i][0]==arr[0]&&base[i][1]==arr[1]&&base[i][2]==arr[2]&&
      base[i][3]==arr[3])
15              return 1;
16      }
17
18      for(i=0; i<4; i++)
19          base[count][i]=arr[i];
20      count++;
21      return 0;
22
23 }
```

2.3.2.2 void create ( )

```
75 {
76      int b[4],action;
77      int *a;
78      a = (int*)malloc(number*sizeof(int));
79      int i,j,k,l,K;
80      char c;
81      for(i=0; i<number; i++)
82          scanf("%d%c",&a[i],&c);
83      //srand (time(NULL));
84      //for(i=0;i<number;i++)
85 //   {
86 //       a[i]= (int)pow(-1,rand()%2)*(rand() % number + 1);
87 //   }
88 //   for(i=0;i<number;i++)
89 //           fprintf(f,"%d\n,",a[i]);
90      scanf("%d",&K);
91      for(i=0; i<number; i++)
92      {
93          b[0]=a[i];
94          for(j=i+1; j<number; j++)
95          {
96              b[1]=a[j];
97              for(k=j+1; k<number; k++)
98              {
99                  b[2]=a[k];
100                  for(l=k+1; l<number; l++)
101                  {
102                      b[3]=a[l];
103                      //printf("%d %d %d %d\n",b[0],b[1],b[2],b[3]);
104                      action = compare(b);
105                      if(action==0)
```

```
106                         sets(b,K);
107                     }
108                 }
109             }
110     }
111
112 }
```

2.3.2.3 int main (void)

```
115 {
116     int i,j;
117     create();
118     //printf("stored");
119     //for(i=0;i<count;i++)
120     //{
121     //  for(j=0;j<4;j++)
122     //      printf("%d,",base[i][j]);
123     //  printf("\n");
124     //}
125     return 0;
126 }
```

2.3.2.4 void sets (int *a[]*, int *K*)

```
26 {
27     if(a[0]+a[1]+a[2]*a[3]<=K)
28     {
29         //printf("%d,%d,%d,%d\n",a[0],a[1],a[2],a[3]);
30         //printf("%d,%d,%d,%d\n",a[0],a[1],a[3],a[2]);
31         //printf("%d,%d,%d,%d\n",a[1],a[0],a[2],a[3]);
32         //printf("%d,%d,%d,%d\n",a[1],a[0],a[3],a[2]);
33     }
34     if(a[0]+a[2]+a[1]*a[3]<=K)
35     {
36         //printf("%d,%d,%d,%d\n",a[0],a[2],a[1],a[3]);
37         //printf("%d,%d,%d,%d\n",a[0],a[2],a[3],a[1]);
38         //printf("%d,%d,%d,%d\n",a[2],a[0],a[1],a[3]);
39         //printf("%d,%d,%d,%d\n",a[2],a[0],a[3],a[1]);
40     }
41     if(a[0]+a[3]+a[1]*a[2]<=K)
42     {
43         //printf("%d,%d,%d,%d\n",a[0],a[3],a[1],a[2]);
44         //printf("%d,%d,%d,%d\n",a[3],a[0],a[2],a[1]);
45         //printf("%d,%d,%d,%d\n",a[3],a[0],a[1],a[2]);
46         //printf("%d,%d,%d,%d\n",a[0],a[3],a[2],a[1]);
47     }
48     if(a[1]+a[2]+a[0]*a[3]<=K)
49     {
50         //printf("%d,%d,%d,%d\n",a[1],a[2],a[0],a[3]);
51         //printf("%d,%d,%d,%d\n",a[1],a[2],a[3],a[0]);
52         //printf("%d,%d,%d,%d\n",a[2],a[1],a[0],a[3]);
53         //printf("%d,%d,%d,%d\n",a[2],a[1],a[3],a[0]);
54     }
55     if(a[1]+a[3]+a[0]*a[2]<=K)
56     {
57         //printf("%d,%d,%d,%d\n",a[3],a[1],a[2],a[0]);
58         //printf("%d,%d,%d,%d\n",a[3],a[1],a[2],a[0]);
59         //printf("%d,%d,%d,%d\n",a[1],a[3],a[0],a[2]);
60         //printf("%d,%d,%d,%d\n",a[1],a[3],a[0],a[2]);
61     }
62     if(a[2]+a[3]+a[0]*a[1]<=K)
63     {
64         //printf("%d,%d,%d,%d\n",a[2],a[3],a[0],a[1]);
65         //printf("%d,%d,%d,%d\n",a[2],a[3],a[1],a[0]);
66         //printf("%d,%d,%d,%d\n",a[3],a[2],a[1],a[0]);
67         //printf("%d,%d,%d,%d\n",a[3],a[2],a[0],a[1]);
68     }
69
70 }
```

2.3.3 Variable Documentation

2.3.3.1 int base[4000000][4]

2.3.3.2 int count =0

2.4 new_astyle.c File Reference

```
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
```

Macros

- #define number 50

Functions

- void sets (int a[], int K)
- void create ()
- int main (void)

2.4.1 Macro Definition Documentation

2.4.1.1 #define number 50

2.4.2 Function Documentation

2.4.2.1 void create ( )

```
36 {
37     int b[4];
38     int *a;
39     a = (int*)malloc(number*sizeof(int));
40     int i,j,k,l,K;
41     char c;
42     for(i=0; i<number; i++)
43         scanf("%d%c",&a[i],&c);
44     //srand ( time(NULL) );
45     //for(i=0;i<number;i++)
46     //{
47     //  a[i]= (int)pow(-1,rand()%2)*(rand() % number + 1);
48     //}
49 //  for(i=0;i<number;i++)
50 //          fprintf(f,"%d\n,",a[i]);
51     scanf("%d",&K);
52     for(i=0; i<number; i++)
53     {
54         b[0]=a[i];
55         for(j=i+1; j<number; j++)
56         {
57             b[1]=a[j];
58             for(k=j+1; k<number; k++)
59             {
60                 b[2]=a[k];
61                 for(l=k+1; l<number; l++)
62                 {
63                     b[3]=a[l];
64                     //printf("%d %d %d %d\n",b[0],b[1],b[2],b[3]);
65                     sets(b,K);
66                 }
67             }
68         }
69     }
70
71 }
```

2.4.2.2 int main (void)

```
74 {
75     create();
76     return 0;
77 }
```

2.4.2.3 void sets (int *a[]*, int *K*)

```
6 {
7     int i,j,k,t,prod,temp[2];
8     for(i=0; i<3; i++)
9     {
10         for(j=i+1; j<4; j++)
11         {
12             prod=1;
13             t=0;
14             for(k=0; k<4; k++)
15             {
16                 if(k!=i&&k!=j)
17                 {
18                     prod=prod*a[k];
19                     temp[t]=k;
20                     t++;
21                 }
22             }
23             if(a[i]+a[j]+prod<= K)
24             {
25                 //printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[0]],a[temp[1]]);
26                 //printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[1]],a[temp[0]]);
27                 //printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[0]],a[temp[1]]);
28                 //printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[1]],a[temp[0]]);
29             }
30         }
31     }
32 }
```

Index