SoftwareLab3

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Chapter 1

File Index

1.1 File List

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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 ()

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

```
56
                       b[1]=a[j];
58
                       for (k=j+1; k<number; k++)</pre>
59
                            b[2]=a[k];
for(l=k+1;l<number;l++)</pre>
60
61
62
                                   b[3]=a[1];
                                   //printf("%d %d %d %d\n",b[0],b[1],b[2],b[3]);
64
65
                                   sets(b,K);
66
67
                      }
68
                }
69
70
71 }
2.1.2.2 int main ( void )
74 {
75
          create();
          return 0;
77 }
2.1.2.3 void sets ( int a[], int K)
6 {
               int i,j,k,t,prod,temp[2];
8
               for(i=0;i<3;i++)
10
                       for(j=i+1; j<4; j++)</pre>
11
12
                             prod=1;
                            t=0;
for(k=0; k<4; k++)
13
14
15
16
                                   if (k!=i&&k!=j)
17
                                   {
18
                                         prod=prod*a[k];
19
                                         temp[t]=k;
20
                                         t++;
21
                             if (a[i]+a[j]+prod<= K)</pre>
24
                                  //printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[0]],a[temp[1]]);
//printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[1]],a[temp[0]]);
//printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[0]],a[temp[1]]);
//printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[1]],a[temp[0]]);
2.5
26
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])

2.2 new2.c File Reference 5

- 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++)</pre>
13
            if (base[i][0]==arr[0]&&base[i][1]==arr[1]&&base[i][2]==arr[2]&&
14
      base[i][3]==arr[3])
15
                return 1;
       }
17
18
       for (i=0; i<4; i++)</pre>
19
           base[count][i]=arr[i];
       count++;
20
21
       return 0;
23 }
```

2.2.2.2 void create ()

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

```
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
          /// for(j=0;j<4;j++)
// printf("%d,",base[i][j]);
// printf("\n");
//}
102
103
104
105
106
          return 0;
107 }
```

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

```
26 {
             int i, j, k, t, prod, temp[2];
for (i=0; i<3; i++)</pre>
2.7
28
29
30
                     for(j=i+1; j<4; j++)</pre>
31
32
                            prod=1;
33
                            t=0;
                            for(k=0; k<4; k++)
34
35
                                    if(k!=i&&k!=j)
37
38
                                           prod=prod*a[k];
39
                                           temp[t]=k;
40
                                           t++;
41
                                    }
42
                            if (a[i]+a[j]+prod<= K)</pre>
44
                                    //printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[0]],a[temp[1]]);
//printf("%d,%d,%d,%d\n",a[i],a[j],a[temp[1]],a[temp[0]]);
//printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[0]],a[temp[1]]);
//printf("%d,%d,%d,%d\n",a[j],a[i],a[temp[1]],a[temp[0]]);
45
46
47
48
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

2.3 new3.c File Reference 7

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++)</pre>
       {
    if (base[i][0]==arr[0]&&base[i][1]==arr[1]&&base[i][2]==arr[2]&&
13
14
      base[i][3]==arr[3])
15
                return 1;
16
17
18
       for (i=0; i<4; i++)</pre>
19
           base[count][i]=arr[i];
20
       count++;
       return 0;
21
23 }
```

2.3.2.2 void create ()

```
75 {
76
        int b[4],action;
77
        int *a;
a = (int*)malloc(number*sizeof(int));
78
        int i, j, k, l, K;
       char c;
        for(i=0; i<number; i++)</pre>
            scanf("%d%c",&a[i],&c);
82
8.3
        //srand (time(NULL));
        //for(i=0;i<number;i++)
84
85 //
86 //
            a[i] = (int)pow(-1,rand()%2)*(rand() % number + 1);
87 //
88 //
        for(i=0;i<number;i++)</pre>
        fprintf(f, "%d\n, ", a[i]); scanf("%d", &K);
89 //
90
        for(i=0; i<number; i++)</pre>
91
92
             b[0]=a[i];
94
             for(j=i+1; j<number; j++)</pre>
95
96
                  b[1]=a[j];
                 for(k=j+1; k<number; k++)</pre>
97
98
99
                      b[2]=a[k];
100
                        for(l=k+1; l<number; l++)</pre>
101
                            b[3]=a[1]; \\ //printf("%d %d %d %d %d\n",b[0],b[1],b[2],b[3]);
102
103
104
                            action = compare(b);
                            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();
               //printf("stored");
118
119
               //for(i=0;i<count;i++)
120
              .,J-U;]<4;j++)
// printf("%d,",base[i][j]);
/// printf("\n");
//}
 121
122
123
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)
2.8
                     //printf("%d,%d,%d,%d\n",a[0],a[1],a[2],a[3]);
//printf("%d,%d,%d,%d\n",a[0],a[1],a[3],a[2]);
//printf("%d,%d,%d,%d\n",a[1],a[0],a[2],a[3]);
29
30
31
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
                     //printf("%d,%d,%d,%d\n",a[0],a[2],a[1],a[3]);
36
                     //printf("%d,%d,%d,%d,%n",a[0],a[2],a[3],a[3]);
//printf("%d,%d,%d,%d,n",a[2],a[0],a[1],a[3]);
//printf("%d,%d,%d,%d,n",a[2],a[0],a[3],a[1]);
37
38
39
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]);
                     //printf("%d,%d,%d,%d\n",a[3],a[0],a[2],a[1]);
//printf("%d,%d,%d,%d\n",a[3],a[0],a[1],a[2]);
//printf("%d,%d,%d,%d\n",a[0],a[3],a[2],a[1]);
44
45
46
47
48
             if(a[1]+a[2]+a[0]*a[3] <= K)
49
                    //printf("%d,%d,%d,%d\n",a[1],a[2],a[0],a[3]);
//printf("%d,%d,%d,%d,n",a[1],a[2],a[3],a[0]);
//printf("%d,%d,%d,%d\n",a[2],a[1],a[0],a[3]);
//printf("%d,%d,%d,%d\n",a[2],a[1],a[3],a[0]);
50
51
52
53
54
55
             if(a[1]+a[3]+a[0]*a[2] <= K)
56
                    //printf("%d,%d,%d,%d\n",a[3],a[1],a[2],a[0]);
//printf("%d,%d,%d,%d\n",a[3],a[1],a[2],a[0]);
//printf("%d,%d,%d,%d\n",a[1],a[3],a[0],a[2]);
//printf("%d,%d,%d,%d\n",a[1],a[3],a[0],a[2]);
57
58
59
60
61
62
             if(a[2]+a[3]+a[0]*a[1] <=K)
63
                    //printf("%d,%d,%d,%d\n",a[2],a[3],a[0],a[1]);
//printf("%d,%d,%d,%d\n",a[2],a[3],a[1],a[0]);
//printf("%d,%d,%d,%d\n",a[3],a[2],a[1],a[0]);
//printf("%d,%d,%d,%d\n",a[3],a[2],a[0],a[1]);
64
65
66
67
68
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;
a = (int*)malloc(number*sizeof(int));
39
        int i, j, k, l, K;
        42
43
44
45
46
             a[i] = (int)pow(-1,rand()%2)*(rand() % number + 1);
48
for (i=0; i < number; i++)
for (i=0; i < number; i++)
for (j=0; i < number; i++)
for (i=0; i < number; i++)</pre>
             b[0]=a[i];
              for(j=i+1; j<number; j++)</pre>
55
56
                   b[1] = a[j];
for(k = j + 1; k < number; k + +)</pre>
57
58
60
                        b[2]=a[k];
                        for(l=k+1; l<number; l++)</pre>
61
62
                             b[3]=a[1];
//printf("%d %d %d %d\n",b[0],b[1],b[2],b[3]);
63
64
                             sets(b,K);
                  }
68
             }
69
70
```

2.4.2.2 int main (void)

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

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

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