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Code::Blocks X Search results X Cccc X Build log X Build messages X
Start here X sum of subsets using backtracking.c X
     1
           #include<stdio.h>
     2
           #include<comio.h>
     3
           int s[10],x[10],d;
     4
           void sumofsub(int ,int ,int);
     5
         □void main() {
     6
               int n, sum=0;
     7
               int i;
     8
               printf("\nEnter the size of the set : ");
               scanf ("%d", &n);
     9
               printf("\nEnter the set in increasing order:\n");
    10
               for(i=1; i<=n; i++)
    11
    12
               scanf("%d", &s[i]);
               printf("\nEnter the value of d : \n");
    13
    14
               scanf ("%d", &d);
    15
               for(i=1; i<=n; i++)
    16
               sum=sum+s[i];
    17
               if (sum<d||s[1]>d)
               printf("\nNo subset possible : ") ;
    18
    19
               else
    20
               sumofsub(0, 1, sum);
    21
               getch();
    22
    23

∃void sumofsub(int m, int k, int r) (
    24
               int i=1;
    25
               x[k]=1;
               if((m+s[k])==d){
    26
    27
                   printf("Subset:");
    28
                   for(i=1; i<=k; i++)
    29
                   if(x[i]==1)
    30
                   printf("\t%d", s[i]);
    31
                   printf("\n");
    32
               }
    33
               else
    34
               if(m+s[k]+s[k+1] <= d)
    35
               sumofsub(m+s[k], k+1, r-s[k]);
    36
               if((m+r-s[k]>=d) &&(m+s[k+1]<=d))
    37
                   x[k]=0;
    38
                   sumofsub(m, k+1, r-s[k]);
    39
               }
    40
    41
<
```

```
"C:\web developement(html.css.js)\sum of subsets using backtracking.exe"

Enter the size of the set : 5

Enter the set in increasing order:

2

5

6

8

Enter the value of d :

9

Subset: 1 2 6

Subset: 1 8
```