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1  #include<stdio.h>
2  #include<conio.h>
3  int s[10] , x[10],d ;
4  void sumofsub ( int , int , int ) ;
5  void main ()
6  {
7  int n , sum = 0 ;
8  int i ;
9  printf ( " \n Enter the size of the set : " ) ;
10 scanf ( "%d" , &n ) ;
11 printf ( " \n Enter the set in increasing order:\n" ) ;
12 for ( i = 1 ; i <= n ; i++ )
13 scanf ("%d", &s[i] ) ;
14 printf ( " \n Enter the value of d : \n " ) ;
15 scanf ( "%d" , &d ) ;
16 for ( i = 1 ; i <= n ; i++ )
17 sum = sum + s[i] ;
18 if ( sum < d || s[1] > d )
19 printf ( " \n No subset possible : " ) ;
20 else
21 sumofsub ( 0 , 1 , sum ) ;

```

input

Enter the size of the set : 4

```

25 void sumofsub ( int m , int k , int r )
26 {
27     int i=1 ;
28     x[k] = 1 ;
29     if ( ( m + s[k] ) == d )
30     {
31         printf("Subset:");
32         for ( i = 1 ; i <= k ; i++ )
33             if ( x[i] == 1 )
34                 printf ( "\t%d" , s[i] ) ;
35         printf ( "\n" ) ;
36     }
37     else
38         if ( m + s[k] + s[k+1] <= d )
39             sumofsub ( m + s[k] , k + 1 , r - s[k] ) ;
40     if ( ( m + r - s[k] >= d ) && ( m + s[k+1] <= d ) )
41     {
42         x[k] = 0 ;
43         sumofsub ( m , k + 1 , r - s[k] ) ;
44     }
}

```

Enter the size of the set : 4

Enter the set in increasing order:

45 78 99 80

Enter the value of d :