B  
1.  
Input file has the following structure:  
name    -    string  
birtdate    -    record  
    day    -    integer  
    month    -    integer  
    year    -    integer  
  
Your task is to write a program that displays all years from birthdate to birthdate + 100 when the birtday occurs on Saturday if January 1st 1900 was Monday.  
  
2.  
What is file descriptor?   
  
D  
1.  
Input file has the following structure:  
personal ID    -    string  
number of children    -    integer  
IDs of children     -    array of strings  
  
Your task is to write a program that based on this information looks up the grandchildren for each person. Write to screen and to a text file the following data:  
personal ID    -    string  
number of grandchildren    -    integer  
IDs of grandchildren    -    array of strings  
  
D4  
1.  
There are two input files. The first one has the following structure:  
student name    -    string  
student code    -    string  
  
The second one has the following structure:  
subject name    -    string  
student code    -    string  
mark    -    integer (0..5)  
  
Your task is to combine the data from these two files using student code and write to screen and to a text file the following data:  
subject name    -    string  
student code    -    string  
student name    -    string  
mark    -    integer (0..5)  
  
E2  
1.  
Input file has the following structure:  
index    -    integer  
measurement    -    real  
location    -    string  
  
Your task is to sort this data based on measurement value in descending order and index value in ascending order. Write the sorted array to screen and to a text file.  
  
2. What is index file? Where is it used? Provide an example.