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#include <stdio.h>
#include <stdlib.h>
/*****
Program:      q1.c
date:        30/9/2021
by :         Mike Mico

purpose:      date checker
*****/
void main()
{
    int month, day, valid, year , newDate;
    newDate = 1;
    char *monthname = "";
    char *suffix="th";

    do
    {
        printf("what is month? \n");
        scanf("%d", &month);

        printf("what is day? \n");
        scanf("%d", &day);

        switch (month)
        {
            case 1:
                valid = 1;
                monthname = "January";
                break;
            case 2:
                valid = 1;
                monthname = "February";
                break;
            case 3:
                valid = 1;
                monthname = "March";
                break;
            case 4:
                valid = 1;
                monthname = "April";
                break;
            case 5:
                valid = 1;
                monthname = "May";
                break;
            case 6:
                valid = 1;
                monthname = "June";
                break;
            case 7:
                valid = 1;
                monthname = "July";

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        break;
    case 8:
        valid = 1;
        monthname = "August";
        break;
    case 9:
        valid = 1;
        monthname = "September";
        break;
    case 10:
        valid = 1;
        monthname = "October";
        break;
    case 11:
        valid = 1;
        monthname = "November";
        break;
    case 12:
        valid = 1;
        monthname = "December";
        break;
    default:
        valid = 0;
}

switch (day)
{
    case 1:
        suffix ="st";
        break;
    case 21:
        suffix = "st";
        break;
    case 31:
        suffix = "st";
        break;
    case 2:
        suffix ="nd";
        break;
    case 22:
        suffix = "nd";
        break;
    case 3:
        suffix ="rd";
        break;
    case 23:
        suffix = "rd";
        break;
    default:
        suffix ="th";
        break;
}
if (month ==2)
{
    printf("what year is it?(after 2000)");
}

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scanf("%d", &newDate);
if (newDate % 4 ==0)
{
    if (day >0 && day <= 29)
        valid == 1;
    else
        valid == 0;
}
if (newDate % 4 !=0)
{
    if (day >0 && day <= 28)
        valid == 1;
    else
        valid == 0;
}
}

if (month == 1 || month == 3 || month == 5 || month == 7 || month == 8 ||
month == 10 || month == 12 )
{
    if (day >0 && day <= 31)
        valid == 1;
    else
        valid == 0;
}

if (month == 4 || month == 6 || month == 9 || month == 11 )
{
    if (day >0 && day <= 30)
        valid == 1;
    else
        valid == 0;
}

if (valid == 1)
{
    printf("this is the %d%c of %c \n", day, suffix, monthname);
}

if (valid == 0)
{
    printf("this is not a valid date \n");
}
printf("Do you have another date to enter?(1 for yes,any other number for no)
\n");
scanf("%d", &newDate);

}while (newDate == 1);
return 0;
}

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