Date

import java.util.Calendar;

class Solution {

public String dayOfTheWeek(int day, int month, int year) {

String s = "";

int t[] = {0, 3, 2, 5, 0, 3, 5, 1, 4, 6, 2, 4};

if (month < 3) year -= 1;

int i = (year + year/4 - year/100 + year/400 + t[month-1] + day) % 7;

//i= (2019+504-20+5+1+31)%7

switch (i) {

case 1: s = "Monday"; break;

case 2: s = "Tuesday"; break;

case 3: s = "Wednesday"; break;

case 4: s = "Thursday"; break;

case 5: s = "Friday"; break;

case 6: s = "Saturday"; break;

case 0: case 7: s = "Sunday"; break;

default: ;

}

return s;

}

}

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AlternateDigit Sum

class Solution {

public int alternateDigitSum(int n) {

int k = 1, sum = 0;

while(n>0){//0

int r=n%10\*k;

sum=sum+r;//sum=-1+5=4

n=n/10;//0

k=k\*-1;//k=-1

}

return -k \* sum;

}

}

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