#include

int p[12] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

int main()

{

int d, m, s, i;

scanf("%d%d", &d, &m);

s = d;

for (i = 0; i+1 < m; i++)

s += p[i];

if (s%7 == 1)

printf("Thursday\n");

if (s%7 == 2)

printf("Friday\n");

if (s%7 == 3)

printf("Saturday\n");

if (s%7 == 4)

printf("Sunday\n");

if (s%7 == 5)

printf("Monday\n");

if (s%7 == 6)

printf("Tuesday\n");

if (s%7 == 0)

printf("Wednesday\n");

return 0;

}