Начало

Masha = M;  
Petya = N; Dima = 8;

Petya < Masha

Petya=N+M/2  
Masha=M/2

Masha < 5

Masha=Masha+2  
Dima=8-2

Petya = N-7

Petya >= 10

Dima=Dima+10  
Petya=Petya-10

конец