**import** java.util.\*;

**public** **class** StopWatch {

**private** **long** startTime = 0;

**private** **long** stopTime = 0;

**private** **long** pausedTime = 0;

**private** **boolean** running = **false**;

**public** **void** start() {

**this**.startTime = System.*currentTimeMillis*();

pausedTime = 0;

**this**.running = **true**;

}

**public** **void** stop() {

**this**.stopTime = System.*currentTimeMillis*() - 1800 \* 1000;

**this**.running = **false**;

}

**public** **void** pause() {

**if** (running) {

pausedTime = System.*currentTimeMillis*();

stop();

}

}

**public** **void** resume() {

**if** (!running) {

**long** duration = System.*currentTimeMillis*() - pausedTime;

startTime += duration;

**this**.running = **true**;

}

}

**public** **long** getElapsedTime() {

**long** elapsed;

Calendar c = Calendar.*getInstance*();

c.add(0, 30);

**if** (running) {

elapsed = (System.*currentTimeMillis*() - 1800 \* 1000 - startTime);

} **else** {

elapsed = (stopTime - startTime);

}

**return** elapsed;

}

}