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Write a program to keep CPU usage as sin funcion

Imported from: renren.

It is said that this is a problem from interview of Microsoft. Write a program, which makes the CPU usage curve in Windows Task Manager shows a Sin function.



The program below is written in java:

```
public class sincpu {
       private static final int cycle=1024,
       public static void main (String[] a
            for(int i = 0;;i++){}
                work(calcNextSleep(i % cycl
                sleep(tick - calcNextSleep(
        private static long calcNextSleep(lon
10
11
            return (int)(Math.sin((double)i
12
13
14
        private static void sleep (long sleep
15
16
            if(sleepTime < 2)</pre>
                Thread.yield();
17
18
            else
                Thread.sleep(sleepTime);
19
```

```
20
21
22
        private static void work (long period
23
            long start = System.currentTimeMi
24
            for(;;){
25
                 Math.sin(1);
26
                 if(System.currentTimeMillis()
27
                     break:
28
29
30
```

Be careful you need to turn off other cores if you have multi-core CPU.

