

Simulated Annealing Pseudocode

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```
/* Parameters of algorithm */
```

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#define Lmax 1000
#define Lamax 100
#define HTsw 0.95
#define LTsw 0.0001
#define alpha 0.95
#define zerot 1.0e-8
#define tini 4.0
#define dt 0.1
#define KB 30.0
```

```
float InnerLoop(double *x, double t){
    unsigned int L = 0, La = 0;
    double xp, fx=f(*x), fxp;
    do{ L++;
        xp = NextConf(*x, t); fxp = f(xp);
        if(fxp <= fx || UniformDist(0.0, 1.0) < exp((fx-fxp)/(KB*t))) {
            *x = xp; fx = fxp; La++;
        }
    } while (L <= Lmax && La <= Lamax);
    return ((float) La)/((float) L);
}
```

Body

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```
t = tini;
while((r = InnerLoop(&x,t)) < HTsw) t = t+dt;

printf("Maximum temperature found: %lf (La/L = %f)\n", t, r);

do { t = t*alpha; } while(t > zerot && (r = InnerLoop(&x,t)) > LTsw) ;
```