AUTOMATICALLY GENERATED LATEX

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0.1 INPUT CODE

```
selectionSort(A[N])
2
3
       for (i=0; i < N; i=i+1)</pre>
 4
5
6
          for (j=i+1; j < N; j=j+1)
7
8
              if (A[j] < A[m])
9
10
                 m = j;
11
12
13
          if (i != m)
14
15
              t = A[i];
16
              A[i] = A[m];
17
              A[m] = t;
18
19
20
       return A;
   }
21
```

0.2 CONVERTED LINES

$$selectionSort (A[N]) = L_{2}(A, N, i, m, j, t)$$

$$L_{2}(A, N, i, m, j, t) = L_{3}(A, N, i, m, j, t)$$

$$L_{3}(A, N, i, m, j, t) = F_{1}(A, N, 0, m, j, t)$$

$$F_{1}(A, N, i, m, j, t) = \Delta_{i < N} (L_{4}(A, N, i, m, j, t), L_{20}(A, N, i, m, j, t))$$

$$L_{4}(A, N, i, m, j, t) = L_{5}(A, N, i, m, j, t)$$

$$L_{5}(A, N, i, m, j, t) = L_{6}(A, N, i, i, j, t)$$

$$L_{6}(A, N, i, m, j, t) = F_{2}(A, N, i, m, i + 1, t)$$

$$F_{2}(A, N, i, m, j, t) = \Delta_{j < N} (L_{7}(A, N, i, m, j, t), L_{13}(A, N, i, m, j, t))$$

$$L_{7}(A, N, i, m, j, t) = L_{8}(A, N, i, m, j, t)$$

$$L_{8}(A, N, i, m, j, t) = \Delta_{A_{j} < A_{m}} (L_{9}(A, N, i, m, j, t), L_{11}(A, N, i, m, j, t))$$

$$L_{9}(A, N, i, m, j, t) = L_{10}(A, N, i, m, j, t)$$

$$L_{10}(A, N, i, m, j, t) = L_{11}(A, N, i, m, j, t)$$

$$L_{11}(A, N, i, m, j, t) = L_{12}(A, N, i, m, j, t)$$

$$L_{12}(A, N, i, m, j, t) = F_{2}(A, N, i, m, j + 1, t)$$

$$L_{13}(A, N, i, m, j, t) = \Delta_{i \neq m} (L_{14}(A, N, i, m, j, t), L_{18}(A, N, i, m, j, t))$$

$$L_{14}(A, N, i, m, j, t) = L_{15}(A, N, i, m, j, t)$$

$$L_{15}(A, N, i, m, j, t) = L_{16}(A, N, i, m, j, t)$$

$$L_{16}(A, N, i, m, j, t) = L_{17}(|A + \delta_{N}(i)(A_{m} - A_{i})|, N, i, m, j, t)$$

$$L_{17}(A, N, i, m, j, t) = L_{18}(|A + \delta_{N}(m)(t - A_{m})|, N, i, m, j, t)$$

$$L_{19}(A, N, i, m, j, t) = F_{1}(A, N, i, m, j, t)$$

$$L_{20}(A, N, i, m, j, t) = \infty$$

0.3 SQUISHED LINES

$$selectionSort\left(A[N]\right) = F_{1}\left(A,N,0,m,j,t\right)$$

$$F_{1}\left(A,N,i,m,j,t\right) = \Delta_{i < N}\left(F_{2}\left(A,N,i,i,i+1,t\right),A\right)$$

$$F_{2}\left(A,N,i,m,j,t\right) = \Delta_{j < N}\left(\Delta_{A_{j} < A_{m}}\left(F_{2}\left(A,N,i,j,j+1,t\right),F_{2}\left(A,N,i,m,j+1,t\right)\right),\Delta_{i \neq m}\left(F_{1}\left(\left|\left|A+\delta_{N}\left(i\right)\left(A_{m}-\left|A_{m}\right|A_{m}\right)\right|\right)\right)$$

0.4 CONVERTED CODE

```
1
                       function selectionSort(A[N]) {
2
                                                            return F1(A,N,0,m,j,t);
3
                    }
                       function F1(A,N,i,m,j,t) {
    return (i < N) ? F2(A,N,i,i,i+1,t) : A;</pre>
 4
5
 6
 7
                        function F2(A,N,i,m,j,t) {
                                                           return (j < N) ? (A_{j} < A_{m}) ? F2(A,N,i,j,j+1,t) : F2(A,N,i,m,j+1,t) : (i != m) ? F1( | |A + \delta_{N}(i)(A_{m} - |A + \delt
  8
                                                             \label{eq:matrix} \{\tt m\}) \,|\, \ , \tt N\,, i+1\,, m\,, j\,, A_{-}\{i\}) \; : \; F1\,(A\,, N\,, i+1\,, m\,, j\,, t\,) \,;
  9
```