§1 TOPSWOPS INTRO 1

November 24, 2020 at 13:24

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Intro. Pepperdine's method for topswops. [Reference: Mathematical Gazette 73 (1989), 131–133.]
                   /* degree of perms; should be less than 16 */
#define maxl 1000
                        /* max level */
#include <stdio.h>
  typedef struct {
    char p[16];
  } perm;
              /* this speeds it up by better than 2 */
  perm a[maxl];
  perm b[maxl];
  char x[maxl];
  main()
    register int j, k, l, m;
    a[0].p[0] = 1;
    m = l = 0;
  tryit: k = ++x[l];
    if (k < n) {
      if (a[l].p[k] \equiv 0) {
        if (b[l].p[k+1] \neq 0) goto tryit;
      } else if (a[l].p[k] \neq k+1) goto tryit;
      a[l+1] = a[l];
       {\bf for}\ (j=1;\ j\le k;\ j+\!\!+)\ a[l+1].p[j]=a[l].p[k-j];
      b[l+1] = b[l];
      a[l+1].p[0] = k+1, b[l+1].p[k+1] = 1;
      if (l \ge m) {
        m=l;
        printf("%d:", m + 1);
        printf("\n");
      }
      l++;
      x[l] = 0;
      goto tryit;
    if (l \ge 0) goto tryit;
```

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