Factorialx **x** sub Factorial*x ~~one~~*, Multx sub **one**.

heapPermutationsize **Eqsize one** copyArrzero PERM\_SIZE, curDex *curDex one* **heapPermutationLoopzero size**.

heapPermutationLoopi size **Lti size** nextLoop *i one*, subSize *size ~~one~~*, heapPermutationsubSize, **Modsize two** tmp workingPermzero, workingPermzero workingPermsubSize, workingPermsubSize tmptmp workingPermi, workingPermi workingPermsubSize, workingPermsubSize tmp, heapPermutationLoopnextLoop size **null**.

initArrLoopndx size workingPermndx ndx, ndxUp *ndx one*, **LtndxUp size initArrLoopndxUp size null**.

copyArrstart end **Ltstart end** allPermscurDex start workingPermstart, ndxUp *start one*, copyArrndxUp end **null**.

curDex zero.