

RMAT.mrql

```
// Kronecker graph generator parameters:
a = 0.57;
b = 0.19;
c = 0.19;
d = 1-(a+b+c);

function randomEdge ( imin: int, imax: int, jmin: int, jmax: int ): (int,int) {
  if (imin = imax and jmin = jmax)
    then (imin,jmin)
  else let n = random(1000)
    in if (n as float <= 1000*a)
      then randomEdge(imin,(imin+imax)/2,jmin,(jmin+jmax)/2)
    else if (n as float <= 1000*(a+b))
      then randomEdge((imin+imax)/2,imax,jmin,(jmin+jmax)/2)
    else if (n as float <= 1000*(a+b+c))
      then randomEdge(imin,(imin+imax)/2,(jmin+jmax)/2,jmax)
    else randomEdge((imin+imax)/2,imax,(jmin+jmax)/2,jmax)
};

store "graph.bin"
from select distinct randomEdge(0,toInt(args[0]),0,toInt(args[0]))
  from i in 1...(toLong(args[1]));
```