public class HalvingCarousel extends DecrementingCarousel {

protected int position = 0;

public HalvingCarousel(final int capacity) {

super(capacity);

}

@Override

public CarouselRun run() {

if (!isRun) {

isRun = true;

return new CarouselRun() {

@Override

public int next() {

if (isFinished())

return -1;

else {

while (array[position %= array.length]<1) {

position++;

}

}

int y = array[position];

array[position] = array[position] / 2;

position++;

return y;

}

@Override

public boolean isFinished() {

for (int el : array)

if (el >=1)

return false;

return true;

}

};

}

return null;

}

}