

```

> with(tcore) ;
[PHI1, addrimcell, addrimthook, avec2nvec, aveccyc, darray2ptn, findcell, findhookinpos, freqtab, (1)
invphi1, ispos, istcore, lp, makebiw, markrimhookV2, nep, nepo, np, numnepo, nvec2alphavec,
nvec2ptn, printdarray, ptn2nvec, ptn2rvec, pttnorm, randpcore, removerimhook, rvec,
tcorechanges, tcoreofptn, tcorepversion, tcores, tcrank, tquot, tresdiag, tresdiag2array,
veccombo]

```

```

> PTNS:=combinat[partition](14) :
> L:=map(x->tcrank(x,5),PTNS) :
> freqtab(L) ;
0, 27
1, 27
2, 27
3, 27
4, 27

```

This means there are 27 ptns of 14 with tcrank = k mod 5
for each k = 0,1,2,3,4.

We illustration Bijection 1 of GKS.

```

> ptn:=[1,1,2,4,4,5,6,6,6] :
> ptntctq:=PHI1(ptn,5) :
ptntctq := [[2, 2, 2, 4], [[1], [1, 1], [ ], [ ], [2]]] (2)

```

5-core of ptn is [2, 2, 2, 4]

5-quotient of ptn is [[1], [1, 1], [], [], [2]]]

```

> invphi1(ptntctq,5) :
[1, 1, 2, 4, 4, 5, 6, 6, 6] (3)

```