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> with(combinat)
[Chi, bell, binomial, cartprod, character, choose, composition, conjpart, decodepart,
 encodepart, eulerian1, eulerian2, fibonacci, firstcomb, firstpart, firstperm, graycode,
 inttovector, lastcomb, lastpart, lastperm, multinomial, nextcomb, nextpart, nextperm,
 numbcomb, numbcomp, numbpart, numbperm, partition, permute, powerset, prevcomb,
 prevpart, prevperm, randcomb, randpart, randperm, rankcomb, rankperm, setpartition,
 stirling1, stirling2, subsets, unrankcomb, unrankperm, vectoint] (1)

> A := {seq(n, n = 1 .. 5)}
A := {1, 2, 3, 4, 5} (2)

> B := powerset(A)
B := {{}, {1}, {2}, {3}, {4}, {5}, {1, 2}, {1, 3}, {1, 4}, {1, 5}, {2, 3}, {2, 4}, {2, 5}, {3,
4}, {3, 5}, {4, 5}, {1, 2, 3}, {1, 2, 4}, {1, 2, 5}, {1, 3, 4}, {1, 3, 5}, {1, 4, 5}, {2, 3, 4},
{2, 3, 5}, {2, 4, 5}, {3, 4, 5}, {1, 2, 3, 4}, {1, 2, 3, 5}, {1, 2, 4, 5}, {1, 3, 4, 5}, {2, 3, 4,
5}, {1, 2, 3, 4, 5}} (3)

> numbcomb(A, 3)
10 (4)

> choose(A, 3)
{{1, 2, 3}, {1, 2, 4}, {1, 2, 5}, {1, 3, 4}, {1, 3, 5}, {1, 4, 5}, {2, 3, 4}, {2, 3, 5}, {2, 4, 5},
{3, 4, 5}} (5)

> nops(B)
32 (6)

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