- (1) Find the following:
 - (a) $p_d(8)$
 - (b) p(8|odd parts)
 - (c) p(8|largest part 4)
- (2) For $1 \le j \le n$, prove that the number of partitions of n containing the part 1 at least j times is p(n-j).
- (3) Let F(n) denote the number of partitions of n with every part appearing at least twice. Let G(n) be the number of partitions of n into parts larger than 1 such that no two parts are consecutive integers. Use conjugate partitions to prove that F(n) = G(n).