CO 330, LECTURE 18 SUMMARY

Summary

First I showed you the bijection between self conjugate partitions and partitions with odd and distinct parts. You can think of this bijection at different levels of intuition or rigour and it is worth having a broad understanding encorporating both.

Next you thought about two other decompositions for partitions and what they told us about the generating functions. The way this was organized is that I drew schematics of the decompositions on the board and you thought about what it meant formally and what formulas it gave for the generating functions. We only finished the first of them today.

References

The bijection between self conjugate partitions and partitions with odd and distinct parts is example 9.15 in the notes. The other two decompositions are Theorem 9.16 and Theorem 9.17 in the notes. We'll return to the second one next class, so try to see if you can do it yourself.