**SPAB – assignment 01**

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**Task 1.1**

3 : 0.0021

4 : 0.0063

5 : 0.0125

6 : 0.0208

7 : 0.0292

8 : 0.0375

9 : 0.0437

10: 0.0479

11: 0.0500

12: 0.0500

13: 0.0500

14: 0.0500

15: 0.0500

16: 0.0500

17: 0.0500

18: 0.0500

19: 0.0500

20: 0.0500

21: 0.0500

22: 0.0500

23: 0.0479

24: 0.0437

25: 0.0375

26: 0.0292

27: 0.0208

28: 0.0125

29: 0.0063

30: 0.0021

**Task 1.4**

n = 250, k = 200

ntuples: 387259191484931827281803063328635184757021919204879086548776294134441634809768596486268223427701459690805754250755446753937083639899235031552231805065335049200243606527053080273843203837317475409080936764645494240018127016257896884681626113039465408860451134387403726577758789062500000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

npermutations: 106294678571149534187136223373463438083767233117329258664671946099578173382913989564795561575544292590439073463173048594121380981816849701237862063359376330185033919968207829405807347583840298946551495400220238222816514991286660449695981231098753830431348335759736287423686886467714220973467157522741831027866313330767213894761439193185130767899443487157496274223278625424565862400000000000000000000000000000000000000000000000000

ncombinations:

134779202705884333073115306260788792805547398513295360

nmultisets: 3776968978119763694067040332417641143468200448773883290121330818195202732647920253843700888040607432069236736663438410440973496614912