**Outline and Keywords**

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[**Chapter 1 Introduction 5**](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.s1jepaqzvn31)

[1.1. Assignment 5](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.88vhfl5uvfwc)

[1.2. Problem description 5](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.1ss6sr5o7xnl)

[1.3. Structure 5](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.dryvq4tgv4hd)

[1.4. Literature Review 5](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.msnyavx9osd1)

[**Chapter 2 Optimal parcel packing 6**](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.x6n2qo5x8d5x)

[2.1. Knapsack Problem 6](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.pzrcod500crd)

[2.2. Placement 6](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.4twp18a24k3a)

[2.2.1 Closest to the origin 6](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.5e6h40hksc2k)

[2.2.2 Extreme Points 6](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.an9m24fc4h4w)

[2.3. Ordering 6](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.fp5hs7l65f5t)

[**Chapter 3 Algorithm 7**](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.52gee55x35zq)

[3.1. Solutions to the knapsack problem 7](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.bd1ckho4quwt)

[3.2. Greedy method 7](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.uz3kn7csk86)

[3.2.1 Heterogeneous boxes 7](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.z4zxne34ulb0)

[3.2.2 Pentomino boxes 7](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.z27eul78il8)

[3.3. Gasp method 7](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.zhb0f07ibjn1)

[3.3.1 Heterogeneous boxes 7](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.3b9zbsynhknp)

[3.3.2 Pentomino boxes 7](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.gf616v6qzce)

[3.2. Greedy vs Gasp 7](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.6gbzpz85cbah)

[**Chapter 4 Experiment 8**](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.j2oz8x1mrez2)

[4.1. Description 8](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.vtt8cxo012cc)

[4.2. Results 8](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.bzjcglebv4et)

[**Chapter 5 Conclusion 9**](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.qwxih1tg36m)

[5.1 Conclusion 9](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.socxn1j1w2ji)

[5.2 Further investigation 9](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.mxnarq9uqx0q)

[**References 10**](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.seko814xw5xw)

[**Appendix A 11**](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.wesnuyj2iuga)

[**Abbreviations and symbols 12**](https://docs.google.com/document/d/1rXhnDCHRML5BSW9beNkT8M9uoNmbmHBA1qsa0bDOjxc/edit#heading=h.6o9oc1nphplk)

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