1 individual task in discrete math:

Edited at 3pm 21.9.2017.

s is your student number. k = s mod 10000. T = s mod 100. m = s mod 35. a = s mod 25.

L = s mod 10. $d\_{2}=\frac{T-L}{10}$. e = s mod 8. m7 = s mod 7. m6 = s mod 6. m5 = s mod 5. m4 = s mod 4.

m3 = s mod 3. m2 = s mod 2. u = s + 10000.

Introduction to discrete math:

1. Why do you need discrete math?

Sets:

2. Find all number of subsets for the set with cardinality = m.

**Proofs:**

3. Prove that $\sum\_{i=0}^{T}b^{i}=\frac{1-b^{T+1}}{1-b}$, $b\ne 1$.

4. Prove the expression for $\sum\_{c=1}^{j}c^{L}$

http://discrete4math.weebly.com/uploads/2/5/3/9/25393482/p2integration2vs2summation.docx

Zimmermann:

5. Try to solve the newest Zimmermann problem starting on 23 September 2017 Saturday:

http://azspcs.com/

If you cannot register here then submit your solutions to me.

Dota2

6. Try to prepare to Dota2 gaming competition:

http://www.dota2.com/international/overview/

7. Try to apply for American citizenship:

https://www.dvlottery.state.gov/

Project:

8. Submit your project.

Deadline: 30.9.2017.