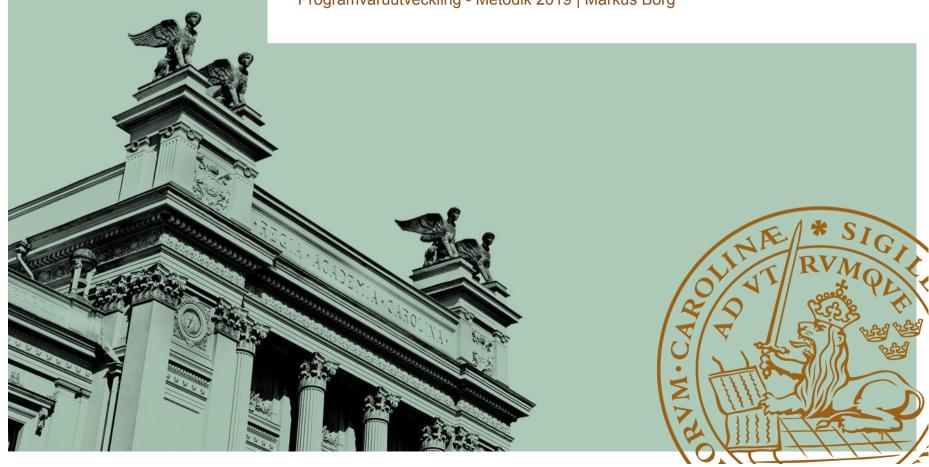


#### Föreläsning 7: LU Rumble 2019

Programvaruutveckling - Metodik 2019 | Markus Borg



### Agenda F7

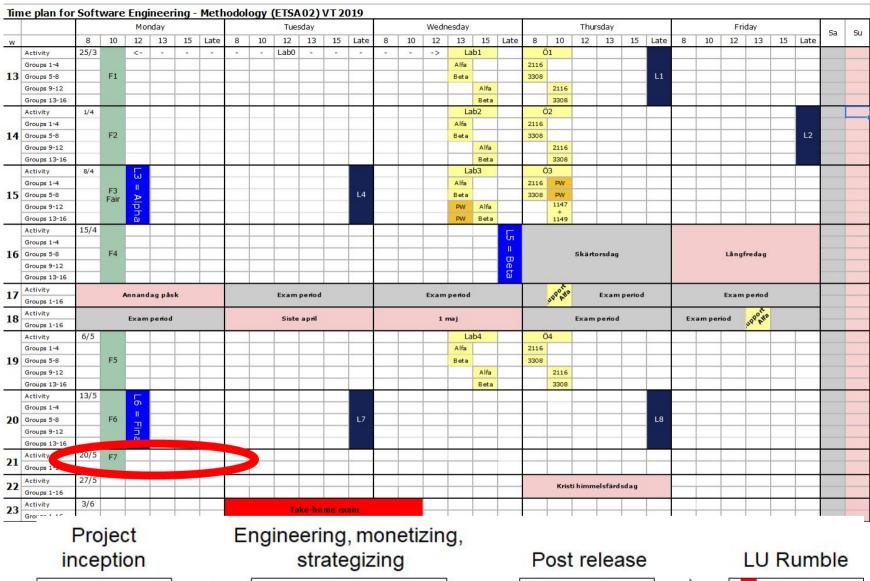
- 1. Tävlingsinformation
  - Regler
  - Utmärkelser
- 2. LU Rumble 2019
  - Uppvärmnings-battle
  - Åttondelsfinaler
    - RAST -
  - Kvartsfinaler
  - Semifinaler
  - Bronsmatch
  - Most Profitable Team Award
  - Final i LU Rumble 2018
  - Most Valuable Robot Award

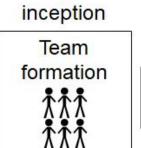


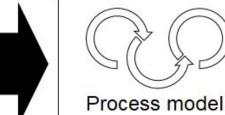


# Robotprojekten

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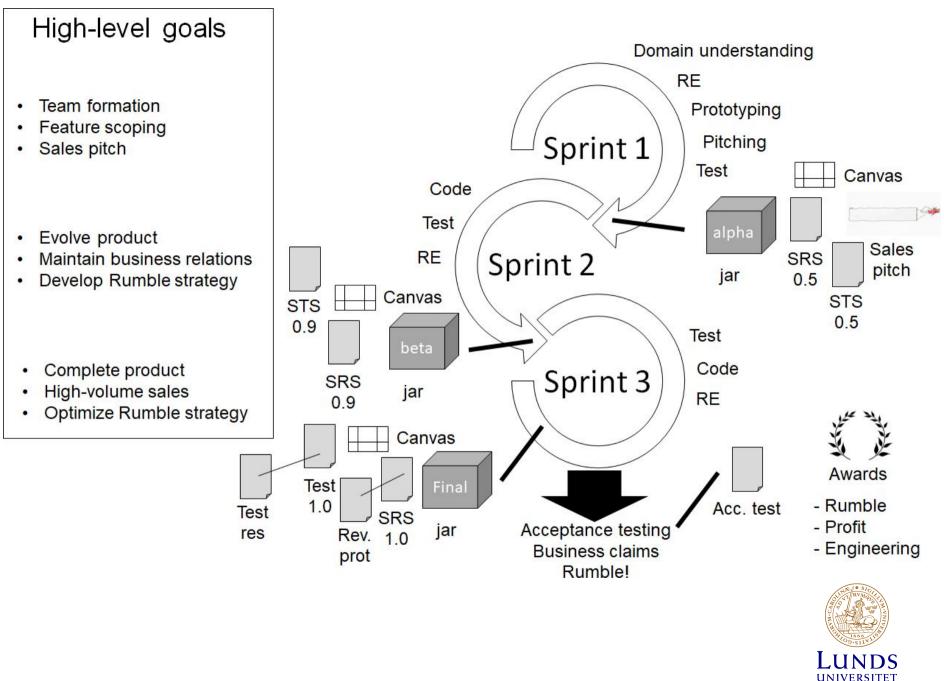




Acceptance and claims







#### Återstående laborationer

#### Många har laborationer kvar att redovisa!

- Er labbhandledare kommer att kontakta er
- Slutför laborationerna innan hemtentamen

#### Primär lösning:

- Kontakta Sergio Rico och redovisa på hans kontor (E:2416)
- o sergio.rico@cs.lth.se

#### Uppsamlingslab

- Onsdag 29 maj kl. 10-12
- E:Alfa



#### Hemtentamen 4 juni kl. 8

#### Ungefär 26 h skrivtid

- Resurser f
   ör tentar
   ättning inte tilldelat
- Inväntar förfrågningar relaterade till förlängd skrivtid

#### Läsanvisningar

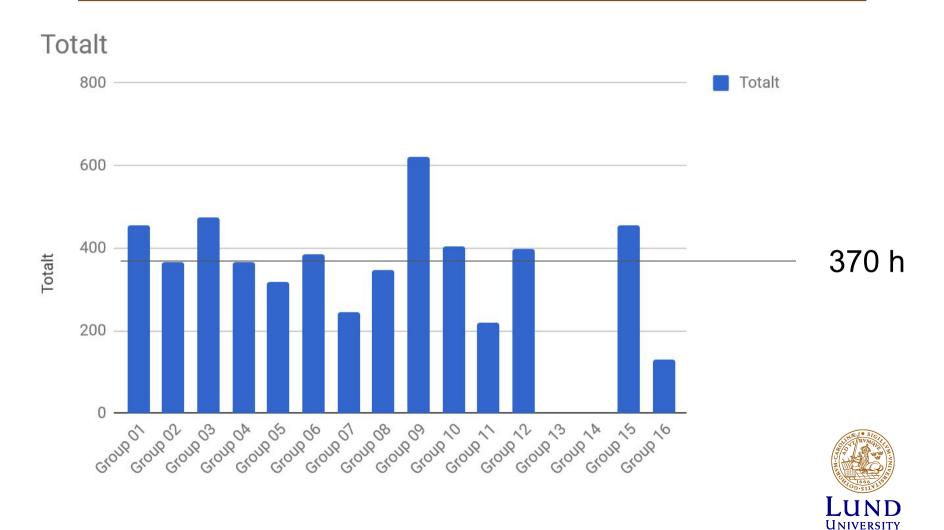
För	eläsningar e	Läsanvisningar
F1	Kursöversikt, projektuppgiften, gruppindelning, kravhantering	Sections: 1, 3
F2	Test 1, git, Design 1	Sections: 6 (OO Design), 8
F3	Test 2. Design 2. Robotmässa.	Sections: 8, 5
F4	Projektplanering. Dokumentgranskning.	Sections: 3
F5	Utvecklingsprocesser.	Sections: 12, 13, 14
F6	Vidareutveckling, versioner, produktplanering. Sammanfattning.	Sections: 11, 2
F7	LU Rumble	

#### Utlovade uppgifter

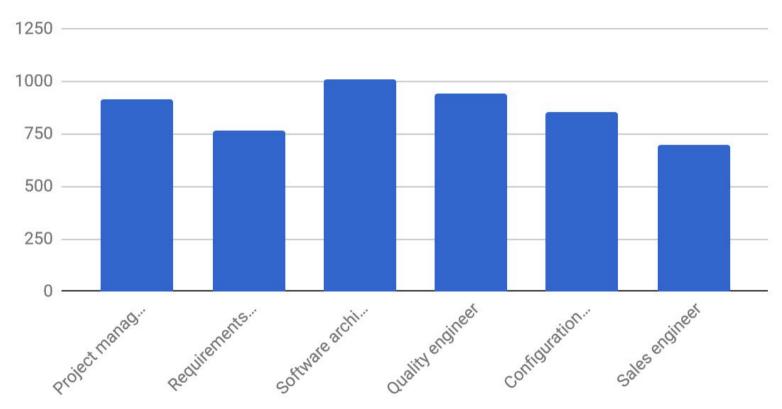
- Test av förmåga som teknisk skribent
- Framåtblickande självreflektion



## Tidrapporter - Total tid per grupp



## Tidrapporter - Total tid per roll





### Enter the global competition

- Global ranking of Robocode robots
  - RoboRumble 1v1 battle on a 800x600 battlefield over 35 rounds.
  - MeleeRumble Ten bots on a 1000x1000 battlefield over 35 rounds.
  - TeamRumble Two teams of 5 bots each on a 1200x1200 battlefield over 10 rounds.
  - Twin Duel Two teams of 2 bots each on a 800x800 battlefield over 75 rounds.
- Weight classes: The rumble engine will automatically calculate your robot's Code Size and place it in the appropriate category.
- http://robowiki.net/wiki/RoboRumble/Enter The Competition

# Current top-10 in 1v1 battles

#### RANKINGS - ROBORUMBLE WITH 1163 BOTS

Rankings Stable

	Flag	Competitor	-APS	PWIN	ANPP	Vote	Survival	<b>Pairings</b>	Battles	Latest Battle
1		jk.mega.DrussGT 3.1.6	91.92	99.83	96.88	10.5	98.07	1162	23753	2019-05-19 10:43:41
2	*3	aaa.n.ScalarN 0.011d.166	90.6	100.0	95.56	12.12	97.61	1162	23717	2019-05-19 08:55:04
3		voidious.Diamond 1.8.22	90.45	99.74	95.42	8.37	97.68	1162	26149	2019-05-19 09:21:38
4	*3	aaa.r.ScalarR 0.005g.047	89.34	99.74	94.15	7.14	96.65	1162	26856	2019-05-19 11:04:48
5		cb.fire.Firestarter 2.0f	88.56	99.74	93.3	0.8	96.92	1162	23633	2019-05-19 11:04:38
6		xander.cat.XanderCat 12.9	88.3	98.97	92.86	1.64	94.72	1162	23643	2019-05-19 11:02:15
7		aw.Gilgalad 1.99.5c	88.28	99.31	92.94	0.77	95.73	1162	23672	2019-05-19 10:35:44
8		lxx.Tomcat 3.68	88.15	99.31	92.83	1.03	95.65	1162	24797	2019-05-19 09:56:41
9	<b>(</b>	rsalesc.mega.Knight 0.6.28	88.14	99.66	92.86	0.26	96.57	1162	23637	2019-05-19 10:12:56
10	•	cs.Nene 1.0.5	87.26	98.54	91.79	0.26	93.19	1162	23722	2019-05-19 10:35:52





#### LU Rumble 2019

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#### Rules of LU Rumble 2019

- Multiple rounds using Robocode standard scoring
  - First round, quarter finals, and semi finals: 3 rounds
  - Bronze match: 4 rounds
  - Final: 5 rounds
- Battlefield size: 1200 x 1200
- Standard settings
  - Gun cooling rate: 0.1
  - Inactivity time: 450
- The team with the highest score proceeds to the next round



#### Three Awards

- Most Profitable Team Award
  - The team that generated the most € in sales (+savings)
- Most Valuable Robot Award (non-leaders)

After each battle, all individual robot gets the team score (+=)

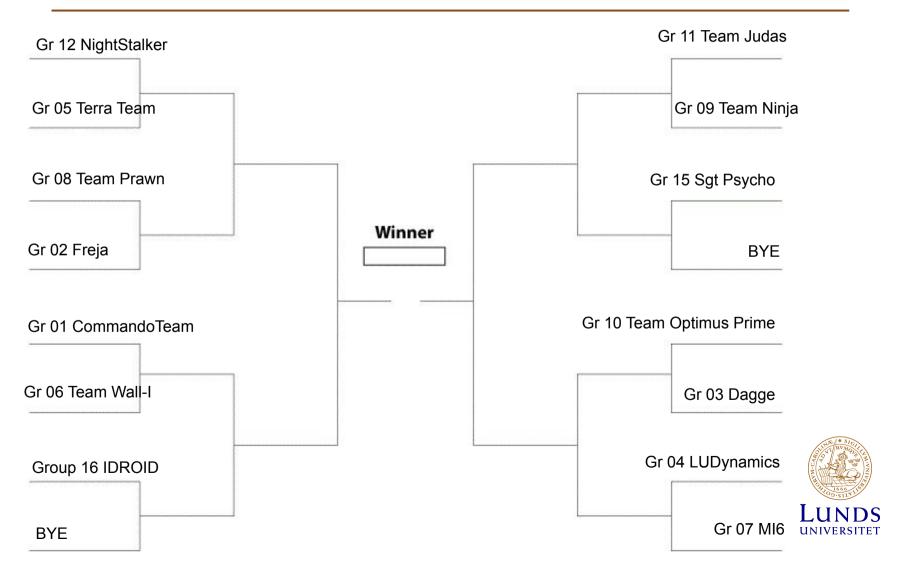
At the end of the LU Rumble, each robot divides its total score by the number of appearances it had on the battlefield.

The robot with the highest figure wins!

LU Rumble Winner



# Lottningen



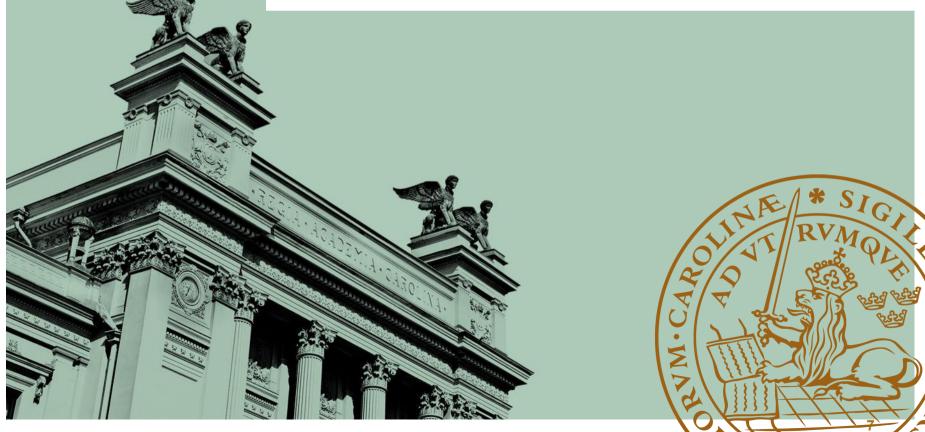
#### LU Rumble Warmup 2019

- Two robots didn't make it into any teams
- They will now help us get into the format
  - A friendly warmup battle a twin duel
- 2 x Prawn
- 2 x Sgt. Psycho





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# Team NightStalker (Group 12)

#### Leader

NinjaBot

Normal robots

CommandoBot

CommandoBot

CommandoBot

CommandoBot

#### **Droids**

**DoubleOSeven** 

**DoubleOSeven** 

DoubleOSeven





## TerraTeam (Group 05)

#### Leader

**Basic Leader Bot** 

Normal robots

Wall-I

Wall-I

Wall-I

Dagge

#### **Droids**

DoubleOSeven

DoubleOSeven

DoubleOSeven









### Team Prawn (Group 08)

Leader

NinjaBot

Normal robots

**Optimus Prime** 

**Optimus Prime** 

**Optimus Prime** 

FrejaBot





## FREJA (Group 02)

Leader

NinjaBot

Normal robots

Dagge

Dagge

Dagge

LUDynamicsBot









### CommandoTeam (Group 01)

#### Leader

NinjaBot

Normal robots

LUDynamicsBot

LUDynamicsBot

LUDynamicsBot

LUDynamicsBot

#### **Droids**

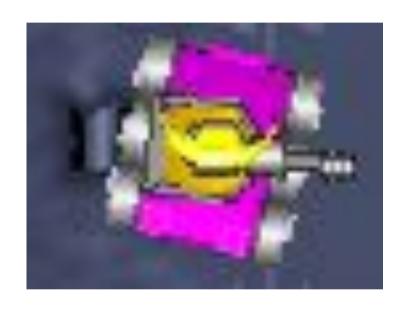
DoubleOSeven

DoubleOSeven

DoubleOSeven

DoubleOSeven

**iDroid** 





## Team WALL-I (Group 06)

Leader

**Basic Leader Bot** 

Normal robots

LUDynamicsBot

LUDynamicsBot

**Optimus Prime** 

Dagge









# IDROID (Group 16)

Leader

NinjaBot

Normal robots

**Terrabyte** 

**Droids** 

DoubleOSeven

**DoubleOSeven** 

DoubleOSeven







#### Inte så lyckade på marknaden denna gång...

- Prawn
- Terrabyte
- Sgt. Psycho





# Team Judas (Group 11)

#### Leader

NinjaBot

Normal robots

XxNightStalkerxX

XxNightStalkerxX

XxNightStalkerxX

XxNightStalkerxX

#### **Droids**

DoubleOSeven

DoubleOSeven

DoubleOSeven





## Team Ninja (Group 09)

Leader

**Basic Leader Bot** 

Normal robots

**Judas** 

**Judas** 

Judas

XxNightStalkerxX





Group 11 Judas Normal F12.00 F18.00 F18.00

Robotede

Total



Grand

total

€32.00

Remaining

budget

€2.00

### Sgt. Psycho (Group 15)

#### Leader

**Basic Leader Bot** 

Normal robots

LUDynamicsBot

LUDynamicsBot

LUDynamicsBot

LUDynamicsBot

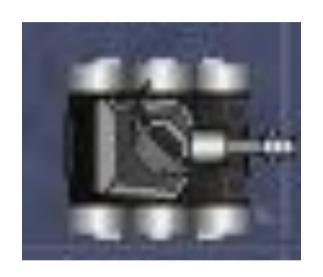
#### **Droids**

**DoubleOSeven** 

**DoubleOSeven** 

DoubleOSeven

DoubleOSeven







			Iotai		Kemaning	Granu	
			payment	Total sales	budget	total	
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00	
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00	

Total





Grand

Pamaining

## Team Optimus Prime (Group 10)

Leader

NinjaBot

Normal robots

CommandoBot

CommandoBot

CommandoBot

CommandoBot

**Droids** 





## DAGGE (Group 03)

#### Leader

**Basic Leader Bot** 

Normal robots

FrejaBot

FrejaBot

FrejaBot

**Judas** 

#### **Droids**

DoubleOSeven

DoubleOSeven

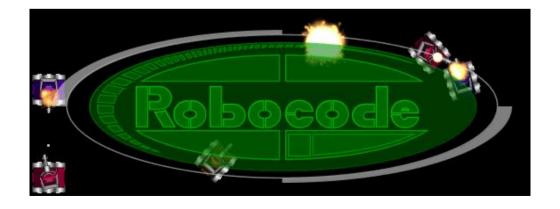
DoubleOSeven





# Åttondelsfinal 8

			iotai		Remaining	Grand
			payment	Total sales	budget	total
Group 12	XxNightstalkerxX	Normal	€18.00	€26.00	€7.00	€51.00
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00





# LUDynamics (Group 04)

#### Leader

Hannibal

Normal robots

Wall-I

Wall-I

Wall-I

Wall-I

#### **Droids**

DoubleOSeven

DoubleOSeven

DoubleOSeven

DoubleOSeven

DoubleOSeven





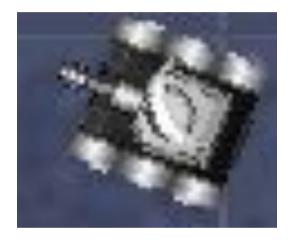
## MI6 (Group 07)

Leader

Basic Leader Bot

Normal robots

Wall-I

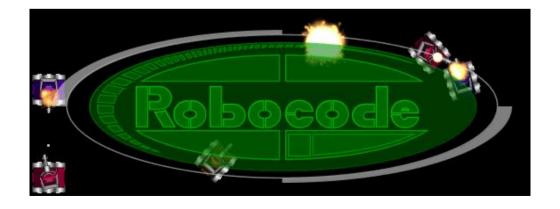






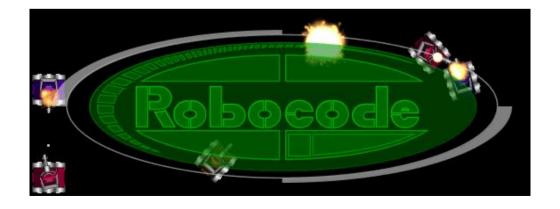
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			Total		Remaining	Grand
			payment	Total sales	budget	total
Group 06	Wall-I	Normal	€12.00	€47.00	€4.00	€63.00
Group 12	XxNightstalkerxX	Normal	€18.00	€26.00	€7.00	€51.00
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00





			Total		Remaining	Grand
			payment	Total sales	budget	total
Group 10	Optimus Prime	Normal	€22.00	€45.00	€1.00	€68.00
Group 06	Wall-I	Normal	€12.00	€47.00	€4.00	€63.00
Group 12	XxNightstalkerxX	Normal	€18.00	€26.00	€7.00	€51.00
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00





			Total		Remaining	Grand
			payment	Total sales	budget	total
Group 02	Freja	Normal	€31.00	€45.00	€3.00	€79.00
Group 10	Optimus Prime	Normal	€22.00	€45.00	€1.00	€68.00
Group 06	Wall-I	Normal	€12.00	€47.00	€4.00	€63.00
Group 12	XxNightstalkerxX	Normal	€18.00	€26.00	€7.00	€51.00
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00





			Total payment	Total sales	Remaining budget	Grand total
Group 01	CommandoBot	Normal	€33.00	€61.00	€1.00	€95.00
Group 02	Freja	Normal	€31.00	€45.00	€3.00	€79.00
Group 10	Optimus Prime	Normal	€22.00	€45.00	€1.00	€68.00
Group 06	Wall-I	Normal	€12.00	€47.00	€4.00	€63.00
Group 12	XxNightstalkerxX	Normal	€18.00	€26.00	€7.00	€51.00
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00







## Semifinaler

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## Semifinal 1

Group 03	Dagge	Normal	Total payment €25.00	Total sales €80.00	Remaining budget €1.00	Grand total €106.00
Group 01	CommandoBot	Normal	€33.00	€61.00	€1.00	€95.00
Group 02	Freja	Normal	€31.00	€45.00	€3.00	€79.00
Group 10	Optimus Prime	Normal	€22.00	€45.00	€1.00	€68.00
Group 06	Wall-I	Normal	€12.00	€47.00	€4.00	€63.00
Group 12	XxNightstalkerxX	Normal	€18.00	€26.00	€7.00	€51.00
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00





## Semifinal 2

			Total payment	Total sales	Remaining budget	Grand total
Group 04	LUDynamicsBot	Normal	€18.00	€119.00	€16.00	€153.00
Group 03	Dagge	Normal	€25.00	€80.00	€1.00	€106.00
Group 01	CommandoBot	Normal	€33.00	€61.00	€1.00	€95.00
Group 02	Freja	Normal	€31.00	€45.00	€3.00	€79.00
Group 10	Optimus Prime	Normal	€22.00	€45.00	€1.00	€68.00
Group 06	Wall-I	Normal	€12.00	€47.00	€4.00	€63.00
Group 12	XxNightstalkerxX	Normal	€18.00	€26.00	€7.00	€51.00
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00

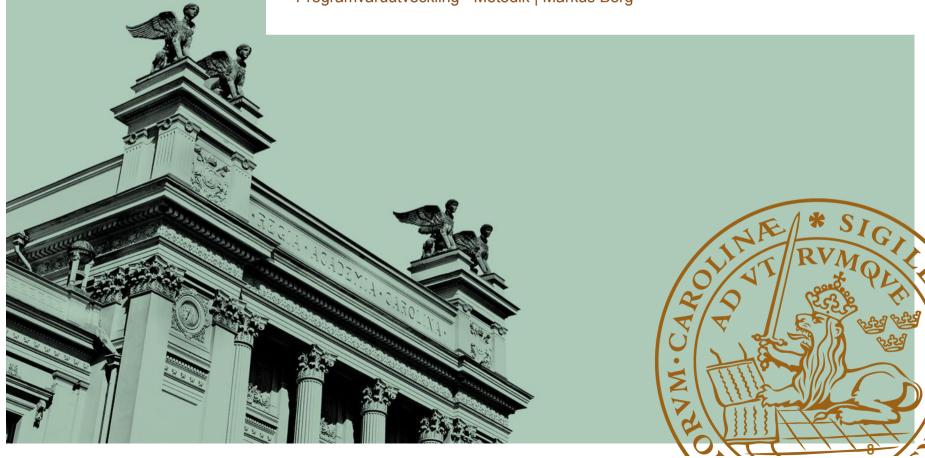






## Final!

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# Most Profitable Team 2019 Group 07

Group	Robot	Туре	Total payment	Total sales	Remaining budget	Grand total
Group 07	Double-O-Seven	Droid	€13.00	€202.00	€68.00	€283.00
Group 09	NinjaBot	Leader	€24.00	€168.00	€44.00	€236.00
Group 04	LUDynamicsBot	Normal	€18.00	€119.00	€16.00	€153.00
Group 03	Dagge	Normal	€25.00	€80.00	€1.00	€106.00
Group 01	CommandoBot	Normal	€33.00	€61.00	€1.00	€95.00
Group 02	Freja	Normal	€31.00	€45.00	€3.00	€79.00
Group 10	Optimus Prime	Normal	€22.00	€45.00	€1.00	€68.00
Group 06	Wall-I	Normal	€12.00	€47.00	€4.00	€63.00
Group 12	XxNightstalkerxX	Normal	€18.00	€26.00	€7.00	€51.00
Group 16	iDroid	Droid	€8.00	€0.00	€32.00	€40.00
Group 11	Judas	Normal	€12.00	€18.00	€2.00	€32.00

