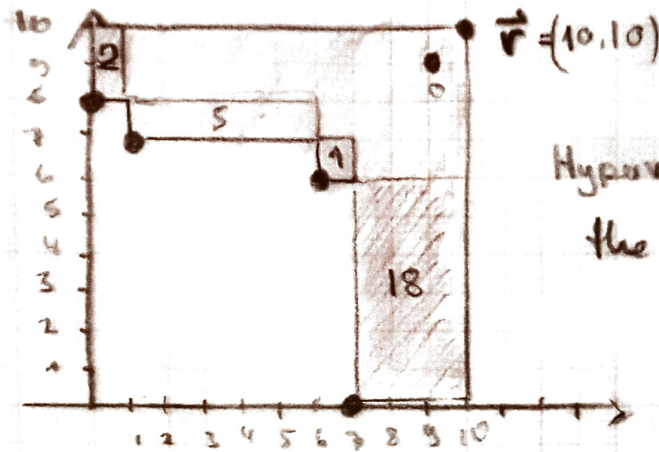


In evolutionary multiobjective optimization Ex. 2017/2018 Task 6
it is the goal to find an approximation ...

6a) Determine the hypervolume indicator



Hypervolume Indicator has
the value 51

(7,0)	has the HV contribution	18
(6,6)	has "	1
(4,7)	"	5
(0,8)	"	2
(9,9)	"	0

6b: Let P = current population, $i = 1$
While: $P \neq \emptyset$:

$N_i \leftarrow$ non-dominated solutions in P

$P = P \setminus N_i$; $i = i + 1$

End while

return (N_1, \dots, N_{i-1})

For a chain of n points it produces n ranks

For an antichain " " 0 ranks.

6c) NP hard problems have the property that every problem in NP can be reduced in polynomial time to them. NP complete problems are NP hard problems that belong to NP.