Funct	tion	distri	bute	() a	applie	ed wi	th da	ays as	time	inte	rvals					1	1					1								1		
	8		8					∞		∞					∞		∞					∞		8					8		∞	
	Mon 01.01.2018	ue 02.01.2018	Ned 03.01.2018	hu 04.01.2018	018	Sat 06.01.2018	Sun 07.01.2018	Mon 08.01.2018	ue 09.01.2018	Wed 10.01.2018	Thu 11.01.2018	018	Sat 13.01.2018	Sun 14.01.2018	Mon 15.01.2018	Fue 16.01.2018	Wed 17.01.2018	Thu 18.01.2018	018	Sat 20.01.2018	Sun 21.01.2018	Mon 22.01.2018	ue 23.01.2018	Wed 24.01.2018	hu 25.01.2018	018	Sat 27.01.2018	Sun 28.01.2018	Mon 29.01.2018	ue 30.01.2018	31.01.2018	
<u>_</u>	01.0	2.01	03.0	4.01	ri 05.01.2018	5.01.	7.01	08.0	9.01	10.0	1.01	ri 12.01.2018	3.01.	4.01	15.0	6.01	17.0	8.01	ri 19.01.2018	0.01	1.01	22.0:	3.01	24.0:	5.01	Fri 26.01.2018	7.01.	8.01	29.03	0.01	31.0	
Earlier	Jon (	ne 0	Ved (	0 ny	ri 05	at 06	nn 0	Jon (	ne 0	Ved	hu 1	ri 12	at 13	un 1	Jon .	ue 1	Ved	hu 1	ri 19	at 20	un 2	Jon .	ue 2	Ved 2	hu 2	ri 26	at 27	un 2	Jon 3	ne 3	Wed	Later
ш	۷	_	>		ш	S	S	_		>		ш	S	S	~		>	<u> </u>		S	S		_	>		ш	S	S	~	_	_ > _	
Apply distri			•				•						O1 O1	201	ַ אַ יַּאַ	1 01 1	2∩1Q'	date	o line	ılı di	ctrihi	ıtadı	value	د۱۱ ار								
uistii	Dutc	.( #uc	1y3, O	, 00.	01.20	,	25.0	1.20.	10, 0	ауз, ч	carcii	uui,	01.01	201	.0,5.	1.01.	2010	, uat	c iiiic	.[], ui.	301100	atcu	varuc	3[] /,								
	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	
Distri	ibute	e 90 u	units	over	spec	ified	time	line	whic	h coı	rresp	onds	to 20	) day	s.																	
distri						_					_				_	_				_	_	_		-								
	0	0	0	0	0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0	0	0	0	0	0	
Base	Based on above, deliver units in batches of 3.																															
distri	bute	( 90,	6, '0	5.01.2	2018	', '25.	01.2	018',	days	, cale	ndar	, '01.	01.20	18','	31.01	.201	8', da	te lir	ne[], (	distril	bute	d valu	ies[]	);								
	0	0	0	0	0	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	0	0	0	0	0	0	
Rega	Regarding budget or supply side, provide incoming material ahead of time without stalling the production: Use 'distribute advance'																															
distri	-	_	_			-	•			_								_														
	0	0	0	0	0	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	0	0	0	0	0	0	
<b>N</b> I				<b>.</b>									l				1! .		11													
Narro distri			•									•									hute	d valı	اود[]	earli	er[]	later	[] ).					
18	Jute	.( 30,	0, 0	0.01.		, 23.	101.2	1	uuys	3										_		Vale	,,,	Cum	C.[],	later	., ,,					24
Work				-		•	-	-			-						-															
distri	bute 0	0 ( 36,	0, '0	6.01. 0	2018 0	0	.01.2	3	, days	3, mo	n_fri	, '01.0 3	01.20	18','3 0	31.01	201	8', da 3	te lin	1e[], (	distrib 0	outed	valu 3	1es[] 3	); 0	0	0	0	0	0	0	0	
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Speci	fy tv	vo ba	nk h	olida	ys ar	nd on	e we	ek o	f vaca	ation	. Wo	rk m	ust b	e squ	ieeze	ed int	o the	rem	ainir	ng da	ys											
bank		, ,						-			•	•			•		•								•							
schoo				-					• • • • •						•	,	_															
distri								018',	, days	s, mo	n_fri	, '01.	01.20	18','	31.01	201	8', da	te lin	ne[], (	distrib	outed	d valu	ies[],	earli	e[], la	iter[]	,					
bank 0	0	daysį 0	J, scr O	0	0	ays[]	); 0	6	6	6	0	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0
U	Ü	U	U	U	0	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		U
Giver	1 the	sam	e ho	liday	and	vaca	tions	defi	ned,	sticki	ing w	ith 3	units	per	day (	exten	ds th	e wo	rk til	II 30.	Janu	ary 2	018.									
distri							-	mon	_fri,	01.0	1.201	.8','3	1.01.2	2018	', dat	e line	e[], di	strib	uted	value	es[], e	earlie	[], la	er[]								
bank										_		_			١.	١ .	١ .	_	١ .		- I			_				I .				•
0	0	0	0	0	0	0	0	3	3	3	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	0	0	3	3	0	0

Function distribute () applied with weeks as time intervals														
Earlier  Mon 01.01.2018  Mon 08.01.2018  Mon 15.01.2018  Mon 15.01.2018  Mon 20.01.2018  Mon 20.01.2018  Mon 10.02.2018  Mon 10.02.2018  Mon 10.03.2018  Mon 20.03.2018  Mon 10.03.2018  Mon 10.03.2018  Mon 20.03.2018  Mon 20.03.2018  Mon 20.03.2018  Mon 20.03.2018  Mon 30.07.2018  Mon 20.03.2018  Mon 30.07.2018  Mon 30.07.2018														
Apply 1 per day, sum of all corresponds of number of days distribute( #days, 0, '29.01.2018', '10.04.2018', weeks, calendar, '03.01.2018', '01.08.2018', date line[], distributed values[] );														
Manufacture 36 units, which is results in 0.5 units per day (7 days / week) distribute( 36, 0, '29.01.2018', '10.04.2018', weeks, calendar, '03.01.2018', '01.08.2018', date line[], distributed values[] );  0 0 0 0 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5														
Manufacture 36 units, 0.5 units per day, but only 5 days per week. Since capacity per day is specified, the additional weeks are required. distribute(36, 0, '29.01.2018', 0.5, weeks, mon_fri, '03.01.2018','01.08.2018', date line[], distributed values[] );														
0 0 0 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5														
And deliver in batches of 2 distribute( 36, 2, '29.01.2018', 0.5, weeks, mon fri, '03.01.2018', '01.08.2018', date line[], distributed values[] );														
0 0 0 0 2 2 2 4 2 2 4 2 2 2 4 2 2 2 0 0 0 0														
Supply side: Provide purchased parts ahead of time without stalling production distribute( 36, 2, '29.01.2018', 0.5, weeks, mon_fri, '03.01.2018', '01.08.2018', date line[], distributed values[] );  0 0 0 0 4 2 2 2 4 2 2 2 4 2 2 2 4 2 0 0 0 0														
Include two weeks of vacation.  school holidays[] = { 02.04.2018, 14.04.2018 }; bank holidays[] = {}; // 2 weeks of vacation  distribute( 36, 2, '29.01.2018', 0.5, weeks, mon_fri, '03.01.2018', '01.08.2018', date line[], distributed values[], earlier[], later[],  bank holidays[], school holidays[] );														
0 0 0 0 0 4 2 2 2 4 2 2 2 4 0 0 2 2 2 4 2 0 0 0 0														
Demonstrate whole weeks: In this case start date is moved back to Monday, and end date is moved to Sunday. Result: 77 days total. distribute( #days, 0, '01.02.2018', '10.04.2018', whole weeks, calendar, '03.01.2018', '01.08.2018', date line[], distributed values[] );														
0 0 0 0 7 7 7 7 7 7 7 7 7 7 0 0 0 0 0 0														

Earlier	Mon 01.01.2018	2018	8.			Function distribute () applied with months as time intervals																										
<u> </u>	Mo	Thu 01.02.2018	Thu 01.03.2018	Sun 01.04.2018	Tue 01.05.2018	Fri 01.06.2018	Sun 01.07.2018	Wed 01.08.2018	Sat 01.09.2018	Mon 01.10.2018	Thu 01.11.2018	Sat 01.12.2018	Tue 01.01.2019	Fri 01.02.2019	Fri 01.03.2019	Mon 01.04.2019	Wed 01.05.2019	Sat 01.06.2019	Mon 01.07.2019	Thu 01.08.2019	Sun 01.09.2019	Tue 01.10.2019	Fri 01.11.2019	Sun 01.12.2019	Wed 01.01.2020	Sat 01.02.2020	Sun 01.03.2020	Wed 01.04.2020	Fri 01.05.2020	Mon 01.06.2020	Wed 01.07.2020	Later
	Apply 1 per day to observe distribute( #days, 0, '11.01.2019', '10.03.2020', months, calendar, '03.01.2018','01.07.2020', date line[], distributed values[] );																															
	0	0	0	0	0	0	0	0	0	0	0	0	21	28	31	30	31	30	31	31	30	31	30	31	31	29	10	0	0	0	0	
<b>Apply</b> distrib			•		•									dar, '		1.201 30	8','01 31	07.2 30	2020', 31	, date	line	[], di: 31	stribu 30		value 31		31	0	0	0	0	
Apply 1 per day, but just Monday through Friday distribute( #days, 0, '11.01.2019', '10.03.2020', months, mon_fri, '03.01.2018','01.07.2020', date line[], distributed values[] );																																
	0	0	0	0	0	0	0	0	0	0	0	0	15	20	21	22	23	20	23	22	21	23	21	22	23	20	7	0	0	0	0	
distrib	Apply 1 per day, all months have equal length (30 days per month and 360 days per year usance)  distribute( #days, 0, '11.01.2019', '10.03.2020', months, 30_360, '03.01.2018','01.07.2020', date line[], distributed values[] );  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																															
<b>Distrik</b> distrib					2010	' '10	n2 20	าวก'	man	the 2	0.26	יח יחי	2 01 1	2010	' '01	חב דר	יממי	lata l	l]ogi	dict	rib+	od va	اعمدا	1 \.								
	o 0	0	0, 1.	0	0	, 10.	03.20	0	0	0	0_36		3.3		5	5	5	5	5 5	, aist	5	eu va 5	5	); 5	5	5	1.7	0	0	0	0	
	<u> </u>		Ů				Ū		Ū	Ū		Ū		_	_	,	,		<u> </u>		<u> </u>					Ů	<u> </u>					
	Here: 3 1/3 Here: 1 2/3  Distribute 70 k EUR in advance and in units of 10 k EUR  distribute advance( 70, 10, '11.01.2019', '10.03.2020', months, 30_360, '03.01.2018','01.07.2020', date line[], distributed values[] );																															
	0	0	0	0	0	0	0	0	0	0	0	0	10		10	0	10	0		0	10	0	10	0	10	0	0	0	0	0	0	
<b>Manu</b> distrib					2.20	18', 2	, moi	nths,	mon			1.201	8','0	1.07.	2020 42	', dat	e line 46	[], di 40	stribi 46	uted 44	value 42	es[], e 46	earlie 42	r[], la 44	nter[] 46	); 40	44	44	42	44	46	96

Function distribute (...) applied with quarters as time intervals and years as time intervals Mon 01.01.2018 Jon 01.10.2018 lon 01.04.2019 1on 01.07.2019 Ned 01.01.2020 Ned 01.04.2020 Ned 01.07.2020 Jon 01.01.2018 Ved 01.01.2020 Jon 01.01.2024 Wed 01.01.2025 un 01.04.2018 sun 01.07.2018 ue 01.01.2019 ue 01.10.2019 hu 01.10.2020 ue 01.01.2019 un 01.01.2023 un 01.01.2017 Sat 01.01.2022 Fri 01.01.2021 ri 01.01.2021 arlier Apply 1 per day to observe distribute( #days, 0, '11.04.2019', '10.07.2021', quarters, calendar, '03.01.2018', '01.01.2021', date line[], distributed values[], earlier[], later[] ); distribute( #days, 0, '11.04.2019', '10.07.2021', years, calendar, '01.01.2017', '01.01.2025', date line[], distributed values[], earlier[], later[]); 0 0 0 0 0 81 92 92 91 91 92 92 90 101 0 0 265 366 191 0 0 0 0 0 0 Do same with 30-360 ruling distribute( #days, 0, '11.04.2019', '10.07.2021', quarters, 30\_360, '03.01.2018','01.01.2021', date line[], distributed values[] ); distribute( #days, 0, '11.04.2019', '10.07.2021', years, 30\_360, '01.01.2017', '01.01.2025', date line[], distributed values[] ); 0 0 0 0 0 80 90 90 90 90 90 90 90 90 100 0 0 260 360 190 0 0 0 0 0 0 Distribute a budget of 300 k EUR from Q4 2017 - Q2 2022, use 30\_360 rule  $distribute(\ 300,\ 0,\ '01.10.2017',\ '30.09.2022', quarters,\ 30\_360,\ '03.01.2018',\ '01.01.2021',\ date\ line[],\ distributed\ values[],\ earlier[],\ later[]);$ distribute( 300, 0, '01.10.2017', '30.09.2022', years, 30\_360, '01.01.2017', '01.01.2025', date line[], distributed values[], earlier[], later[] ); 0 15 60 60 60 60 45 0 0 0 0 Distribute a budget of 300 k EUR from Q4 2017 - Q2 2022, use 30\_360 rule, but pay out at end in 10 k EUR or multiple distribute( 300, 0, '01.10.2017', '30.09.2022',quarters, 30\_360, '03.01.2018','01.01.2021', date line[], distributed values[], earlier[], later[] );

0 10 60 60 60 60 50 0 0 0 0

distribute( 300, 0, '01.10.2017', '30.09.2022',years, 30\_360, '01.01.2017','01.01.2025', date line[], distributed values[], earlier[], later[] );

10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 90