Input

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
20	20	20	20	20	20	40	40	40	40	40	40								

Phase 1

S1	S2	S3	S4
4, 8, 12 ,16, 6x20, 6x40| mod (4) = 0	1, 5, 9, 13, 17 | mod (4) = 1	2, 6, 10, 14, 18| mod (4) = 2	**3, 7, 11, 15, 19| mod (4) = 3**
Do not fit (big invoices)	Do not fit (big invoices)	Do not fit (big invoices)	**Fits (5KB < 6KB)**

Phase 2

S11	**12 | mod (3) = 0**	S21	**9 | mod (3) = 0**	S31	**6, 18 | mod (3) = 0**
S12	4, 16, 6x40| mod (3) = 1	S22	**1, 13| mod (3) = 1**	S32	**10 | mod (3) = 1**
S13	8, 7x20 | mod (3) = 2	S23	**5, 17 | mod (3) = 2**	S33	**2, 14 | mod (3) = 2**

Initial File = 20 KB
Max In Memory File = (6 KB)

Phase1: Splits Factor 1 = 20 | 6 = 4
S1, S2, S3 - Next Phase
S4 - Fits

Phase2: Split Factor 2 = SF1 - 1 = 3
S11 - Fits,
S12, S13 - Next Phase
S21, S22, S23 - Fits
S21, S22, S23 - Fits

Phase3: Split Factor 3 = SF2 - 1 = 2
S121, S131 - Next Phase
S122, S132 - Fits

Phase 3

S121	4, 16, 6x40| mod (2) = 0	S131	8, 7x20 | mod (2) = 0
S122	**| mod (2) = 1**	S132	**| mod (2) = 1**

Strategy:
1) If split size is less then max file size in memory we user InMemoryTransformer
2) If split size is big and SF > 2 then we use SpliterTransformer
3) If 1) and 2) does not work we use DiskTransformer (last phase)