!m=20 n=50 m\*(n+1)=1020;

model:

min=(@abs(x11-1)+@abs(x12-0)+@abs(x13-0)+@abs(x14-0)+@abs(x15-0)+@abs(x16-0)+@abs(x17-0)+@abs(x18-0)+@abs(x19-0)+@abs(x110-0)+@abs(x111-0)+@abs(x112-0)+@abs(x113-0)+@abs(x114-0)+@abs(x115-0)+@abs(x116-0)+@abs(x117-0)+@abs(x118-0)+@abs(x119-0)+@abs(x120-0)+@abs(x21-1)+@abs(x22-0)+@abs(x23-0)+@abs(x24-0)+@abs(x25-0)+@abs(x26-0)+@abs(x27-0)+@abs(x28-0)+@abs(x29-0)+@abs(x210-0)+@abs(x211-0)+@abs(x212-0)+@abs(x213-0)+@abs(x214-0)+@abs(x215-0)+@abs(x216-0)+@abs(x217-0)+@abs(x218-0)+@abs(x219-0)+@abs(x220-0)+@abs(x31-1)+@abs(x32-0)+@abs(x33-0)+@abs(x34-0)+@abs(x35-0)+@abs(x36-0)+@abs(x37-0)+@abs(x38-0)+@abs(x39-0)+@abs(x310-0)+@abs(x311-0)+@abs(x312-0)+@abs(x313-0)+@abs(x314-0)+@abs(x315-0)+@abs(x316-0)+@abs(x317-0)+@abs(x318-0)+@abs(x319-0)+@abs(x320-0)+@abs(x41-1)+@abs(x42-0)+@abs(x43-0)+@abs(x44-0)+@abs(x45-0)+@abs(x46-0)+@abs(x47-0)+@abs(x48-0)+@abs(x49-0)+@abs(x410-0)+@abs(x411-0)+@abs(x412-0)+@abs(x413-0)+@abs(x414-0)+@abs(x415-0)+@abs(x416-0)+@abs(x417-0)+@abs(x418-0)+@abs(x419-0)+@abs(x420-0)+@abs(x51-1)+@abs(x52-0)+@abs(x53-0)+@abs(x54-0)+@abs(x55-0)+@abs(x56-0)+@abs(x57-0)+@abs(x58-0)+@abs(x59-0)+@abs(x510-0)+@abs(x511-0)+@abs(x512-0)+@abs(x513-0)+@abs(x514-0)+@abs(x515-0)+@abs(x516-0)+@abs(x517-0)+@abs(x518-0)+@abs(x519-0)+@abs(x520-0)+@abs(x61-1)+@abs(x62-0)+@abs(x63-0)+@abs(x64-0)+@abs(x65-0)+@abs(x66-0)+@abs(x67-0)+@abs(x68-0)+@abs(x69-0)+@abs(x610-0)+@abs(x611-0)+@abs(x612-0)+@abs(x613-0)+@abs(x614-0)+@abs(x615-0)+@abs(x616-0)+@abs(x617-0)+@abs(x618-0)+@abs(x619-0)+@abs(x620-0)+@abs(x71-1)+@abs(x72-0)+@abs(x73-0)+@abs(x74-0)+@abs(x75-0)+@abs(x76-0)+@abs(x77-0)+@abs(x78-0)+@abs(x79-0)+@abs(x710-0)+@abs(x711-0)+@abs(x712-0)+@abs(x713-0)+@abs(x714-0)+@abs(x715-0)+@abs(x716-0)+@abs(x717-0)+@abs(x718-0)+@abs(x719-0)+@abs(x720-0)+@abs(x81-1)+@abs(x82-0)+@abs(x83-0)+@abs(x84-0)+@abs(x85-0)+@abs(x86-0)+@abs(x87-0)+@abs(x88-0)+@abs(x89-0)+@abs(x810-0)+@abs(x811-0)+@abs(x812-0)+@abs(x813-0)+@abs(x814-0)+@abs(x815-0)+@abs(x816-0)+@abs(x817-0)+@abs(x818-0)+@abs(x819-0)+@abs(x820-0)+@abs(x91-1)+@abs(x92-0)+@abs(x93-0)+@abs(x94-0)+@abs(x95-0)+@abs(x96-0)+@abs(x97-0)+@abs(x98-0)+@abs(x99-0)+@abs(x910-0)+@abs(x911-0)+@abs(x912-0)+@abs(x913-0)+@abs(x914-0)+@abs(x915-0)+@abs(x916-0)+@abs(x917-0)+@abs(x918-0)+@abs(x919-0)+@abs(x920-0)+@abs(x101-1)+@abs(x102-0)+@abs(x103-0)+@abs(x104-0)+@abs(x105-0)+@abs(x106-0)+@abs(x107-0)+@abs(x108-0)+@abs(x109-0)+@abs(x1010-0)+@abs(x1011-0)+@abs(x1012-0)+@abs(x1013-0)+@abs(x1014-0)+@abs(x1015-0)+@abs(x1016-0)+@abs(x1017-0)+@abs(x1018-0)+@abs(x1019-0)+@abs(x1020-0)+@abs(x111-1)+@abs(x112-0)+@abs(x113-0)+@abs(x114-0)+@abs(x115-0)+@abs(x116-0)+@abs(x117-0)+@abs(x118-0)+@abs(x119-0)+@abs(x1110-0)+@abs(x1111-0)+@abs(x1112-0)+@abs(x1113-0)+@abs(x1114-0)+@abs(x1115-0)+@abs(x1116-0)+@abs(x1117-0)+@abs(x1118-0)+@abs(x1119-0)+@abs(x1120-0)+@abs(x121-1)+@abs(x122-0)+@abs(x123-0)+@abs(x124-0)+@abs(x125-0)+@abs(x126-0)+@abs(x127-0)+@abs(x128-0)+@abs(x129-0)+@abs(x1210-0)+@abs(x1211-0)+@abs(x1212-0)+@abs(x1213-0)+@abs(x1214-0)+@abs(x1215-0)+@abs(x1216-0)+@abs(x1217-0)+@abs(x1218-0)+@abs(x1219-0)+@abs(x1220-0)+@abs(x131-1)+@abs(x132-0)+@abs(x133-0)+@abs(x134-0)+@abs(x135-0)+@abs(x136-0)+@abs(x137-0)+@abs(x138-0)+@abs(x139-0)+@abs(x1310-0)+@abs(x1311-0)+@abs(x1312-0)+@abs(x1313-0)+@abs(x1314-0)+@abs(x1315-0)+@abs(x1316-0)+@abs(x1317-0)+@abs(x1318-0)+@abs(x1319-0)+@abs(x1320-0)+@abs(x141-1)+@abs(x142-0)+@abs(x143-0)+@abs(x144-0)+@abs(x145-0)+@abs(x146-0)+@abs(x147-0)+@abs(x148-0)+@abs(x149-0)+@abs(x1410-0)+@abs(x1411-0)+@abs(x1412-0)+@abs(x1413-0)+@abs(x1414-0)+@abs(x1415-0)+@abs(x1416-0)+@abs(x1417-0)+@abs(x1418-0)+@abs(x1419-0)+@abs(x1420-0)+@abs(x151-1)+@abs(x152-0)+@abs(x153-0)+@abs(x154-0)+@abs(x155-0)+@abs(x156-0)+@abs(x157-0)+@abs(x158-0)+@abs(x159-0)+@abs(x1510-0)+@abs(x1511-0)+@abs(x1512-0)+@abs(x1513-0)+@abs(x1514-0)+@abs(x1515-0)+@abs(x1516-0)+@abs(x1517-0)+@abs(x1518-0)+@abs(x1519-0)+@abs(x1520-0)+@abs(x161-1)+@abs(x162-0)+@abs(x163-0)+@abs(x164-0)+@abs(x165-0)+@abs(x166-0)+@abs(x167-0)+@abs(x168-0)+@abs(x169-0)+@abs(x1610-0)+@abs(x1611-0)+@abs(x1612-0)+@abs(x1613-0)+@abs(x1614-0)+@abs(x1615-0)+@abs(x1616-0)+@abs(x1617-0)+@abs(x1618-0)+@abs(x1619-0)+@abs(x1620-0)+@abs(x171-1)+@abs(x172-0)+@abs(x173-0)+@abs(x174-0)+@abs(x175-0)+@abs(x176-0)+@abs(x177-0)+@abs(x178-0)+@abs(x179-0)+@abs(x1710-0)+@abs(x1711-0)+@abs(x1712-0)+@abs(x1713-0)+@abs(x1714-0)+@abs(x1715-0)+@abs(x1716-0)+@abs(x1717-0)+@abs(x1718-0)+@abs(x1719-0)+@abs(x1720-0)+@abs(x181-1)+@abs(x182-0)+@abs(x183-0)+@abs(x184-0)+@abs(x185-0)+@abs(x186-0)+@abs(x187-0)+@abs(x188-0)+@abs(x189-0)+@abs(x1810-0)+@abs(x1811-0)+@abs(x1812-0)+@abs(x1813-0)+@abs(x1814-0)+@abs(x1815-0)+@abs(x1816-0)+@abs(x1817-0)+@abs(x1818-0)+@abs(x1819-0)+@abs(x1820-0)+@abs(x191-1)+@abs(x192-0)+@abs(x193-0)+@abs(x194-0)+@abs(x195-0)+@abs(x196-0)+@abs(x197-0)+@abs(x198-0)+@abs(x199-0)+@abs(x1910-0)+@abs(x1911-0)+@abs(x1912-0)+@abs(x1913-0)+@abs(x1914-0)+@abs(x1915-0)+@abs(x1916-0)+@abs(x1917-0)+@abs(x1918-0)+@abs(x1919-0)+@abs(x1920-0)+@abs(x201-1)+@abs(x202-0)+@abs(x203-0)+@abs(x204-0)+@abs(x205-0)+@abs(x206-0)+@abs(x207-0)+@abs(x208-0)+@abs(x209-0)+@abs(x2010-0)+@abs(x2011-0)+@abs(x2012-0)+@abs(x2013-0)+@abs(x2014-0)+@abs(x2015-0)+@abs(x2016-0)+@abs(x2017-0)+@abs(x2018-0)+@abs(x2019-0)+@abs(x2020-0)+@abs(x211-1)+@abs(x212-0)+@abs(x213-0)+@abs(x214-0)+@abs(x215-0)+@abs(x216-0)+@abs(x217-0)+@abs(x218-0)+@abs(x219-0)+@abs(x2110-0)+@abs(x2111-0)+@abs(x2112-0)+@abs(x2113-0)+@abs(x2114-0)+@abs(x2115-0)+@abs(x2116-0)+@abs(x2117-0)+@abs(x2118-0)+@abs(x2119-0)+@abs(x2120-0)+@abs(x221-1)+@abs(x222-0)+@abs(x223-0)+@abs(x224-0)+@abs(x225-0)+@abs(x226-0)+@abs(x227-0)+@abs(x228-0)+@abs(x229-0)+@abs(x2210-0)+@abs(x2211-0)+@abs(x2212-0)+@abs(x2213-0)+@abs(x2214-0)+@abs(x2215-0)+@abs(x2216-0)+@abs(x2217-0)+@abs(x2218-0)+@abs(x2219-0)+@abs(x2220-0)+@abs(x231-1)+@abs(x232-0)+@abs(x233-0)+@abs(x234-0)+@abs(x235-0)+@abs(x236-0)+@abs(x237-0)+@abs(x238-0)+@abs(x239-0)+@abs(x2310-0)+@abs(x2311-0)+@abs(x2312-0)+@abs(x2313-0)+@abs(x2314-0)+@abs(x2315-0)+@abs(x2316-0)+@abs(x2317-0)+@abs(x2318-0)+@abs(x2319-0)+@abs(x2320-0)+@abs(x241-1)+@abs(x242-0)+@abs(x243-0)+@abs(x244-0)+@abs(x245-0)+@abs(x246-0)+@abs(x247-0)+@abs(x248-0)+@abs(x249-0)+@abs(x2410-0)+@abs(x2411-0)+@abs(x2412-0)+@abs(x2413-0)+@abs(x2414-0)+@abs(x2415-0)+@abs(x2416-0)+@abs(x2417-0)+@abs(x2418-0)+@abs(x2419-0)+@abs(x2420-0)+@abs(x251-1)+@abs(x252-0)+@abs(x253-0)+@abs(x254-0)+@abs(x255-0)+@abs(x256-0)+@abs(x257-0)+@abs(x258-0)+@abs(x259-0)+@abs(x2510-0)+@abs(x2511-0)+@abs(x2512-0)+@abs(x2513-0)+@abs(x2514-0)+@abs(x2515-0)+@abs(x2516-0)+@abs(x2517-0)+@abs(x2518-0)+@abs(x2519-0)+@abs(x2520-0)+@abs(x261-1)+@abs(x262-0)+@abs(x263-0)+@abs(x264-0)+@abs(x265-0)+@abs(x266-0)+@abs(x267-0)+@abs(x268-0)+@abs(x269-0)+@abs(x2610-0)+@abs(x2611-0)+@abs(x2612-0)+@abs(x2613-0)+@abs(x2614-0)+@abs(x2615-0)+@abs(x2616-0)+@abs(x2617-0)+@abs(x2618-0)+@abs(x2619-0)+@abs(x2620-0)+@abs(x271-1)+@abs(x272-0)+@abs(x273-0)+@abs(x274-0)+@abs(x275-0)+@abs(x276-0)+@abs(x277-0)+@abs(x278-0)+@abs(x279-0)+@abs(x2710-0)+@abs(x2711-0)+@abs(x2712-0)+@abs(x2713-0)+@abs(x2714-0)+@abs(x2715-0)+@abs(x2716-0)+@abs(x2717-0)+@abs(x2718-0)+@abs(x2719-0)+@abs(x2720-0)+@abs(x281-1)+@abs(x282-0)+@abs(x283-0)+@abs(x284-0)+@abs(x285-0)+@abs(x286-0)+@abs(x287-0)+@abs(x288-0)+@abs(x289-0)+@abs(x2810-0)+@abs(x2811-0)+@abs(x2812-0)+@abs(x2813-0)+@abs(x2814-0)+@abs(x2815-0)+@abs(x2816-0)+@abs(x2817-0)+@abs(x2818-0)+@abs(x2819-0)+@abs(x2820-0)+@abs(x291-1)+@abs(x292-0)+@abs(x293-0)+@abs(x294-0)+@abs(x295-0)+@abs(x296-0)+@abs(x297-0)+@abs(x298-0)+@abs(x299-0)+@abs(x2910-0)+@abs(x2911-0)+@abs(x2912-0)+@abs(x2913-0)+@abs(x2914-0)+@abs(x2915-0)+@abs(x2916-0)+@abs(x2917-0)+@abs(x2918-0)+@abs(x2919-0)+@abs(x2920-0)+@abs(x301-1)+@abs(x302-0)+@abs(x303-0)+@abs(x304-0)+@abs(x305-0)+@abs(x306-0)+@abs(x307-0)+@abs(x308-0)+@abs(x309-0)+@abs(x3010-0)+@abs(x3011-0)+@abs(x3012-0)+@abs(x3013-0)+@abs(x3014-0)+@abs(x3015-0)+@abs(x3016-0)+@abs(x3017-0)+@abs(x3018-0)+@abs(x3019-0)+@abs(x3020-0)+@abs(x311-1)+@abs(x312-0)+@abs(x313-0)+@abs(x314-0)+@abs(x315-0)+@abs(x316-0)+@abs(x317-0)+@abs(x318-0)+@abs(x319-0)+@abs(x3110-0)+@abs(x3111-0)+@abs(x3112-0)+@abs(x3113-0)+@abs(x3114-0)+@abs(x3115-0)+@abs(x3116-0)+@abs(x3117-0)+@abs(x3118-0)+@abs(x3119-0)+@abs(x3120-0)+@abs(x321-1)+@abs(x322-0)+@abs(x323-0)+@abs(x324-0)+@abs(x325-0)+@abs(x326-0)+@abs(x327-0)+@abs(x328-0)+@abs(x329-0)+@abs(x3210-0)+@abs(x3211-0)+@abs(x3212-0)+@abs(x3213-0)+@abs(x3214-0)+@abs(x3215-0)+@abs(x3216-0)+@abs(x3217-0)+@abs(x3218-0)+@abs(x3219-0)+@abs(x3220-0)+@abs(x331-1)+@abs(x332-0)+@abs(x333-0)+@abs(x334-0)+@abs(x335-0)+@abs(x336-0)+@abs(x337-0)+@abs(x338-0)+@abs(x339-0)+@abs(x3310-0)+@abs(x3311-0)+@abs(x3312-0)+@abs(x3313-0)+@abs(x3314-0)+@abs(x3315-0)+@abs(x3316-0)+@abs(x3317-0)+@abs(x3318-0)+@abs(x3319-0)+@abs(x3320-0)+@abs(x341-1)+@abs(x342-0)+@abs(x343-0)+@abs(x344-0)+@abs(x345-0)+@abs(x346-0)+@abs(x347-0)+@abs(x348-0)+@abs(x349-0)+@abs(x3410-0)+@abs(x3411-0)+@abs(x3412-0)+@abs(x3413-0)+@abs(x3414-0)+@abs(x3415-0)+@abs(x3416-0)+@abs(x3417-0)+@abs(x3418-0)+@abs(x3419-0)+@abs(x3420-0)+@abs(x351-1)+@abs(x352-0)+@abs(x353-0)+@abs(x354-0)+@abs(x355-0)+@abs(x356-0)+@abs(x357-0)+@abs(x358-0)+@abs(x359-0)+@abs(x3510-0)+@abs(x3511-0)+@abs(x3512-0)+@abs(x3513-0)+@abs(x3514-0)+@abs(x3515-0)+@abs(x3516-0)+@abs(x3517-0)+@abs(x3518-0)+@abs(x3519-0)+@abs(x3520-0)+@abs(x361-1)+@abs(x362-0)+@abs(x363-0)+@abs(x364-0)+@abs(x365-0)+@abs(x366-0)+@abs(x367-0)+@abs(x368-0)+@abs(x369-0)+@abs(x3610-0)+@abs(x3611-0)+@abs(x3612-0)+@abs(x3613-0)+@abs(x3614-0)+@abs(x3615-0)+@abs(x3616-0)+@abs(x3617-0)+@abs(x3618-0)+@abs(x3619-0)+@abs(x3620-0)+@abs(x371-1)+@abs(x372-0)+@abs(x373-0)+@abs(x374-0)+@abs(x375-0)+@abs(x376-0)+@abs(x377-0)+@abs(x378-0)+@abs(x379-0)+@abs(x3710-0)+@abs(x3711-0)+@abs(x3712-0)+@abs(x3713-0)+@abs(x3714-0)+@abs(x3715-0)+@abs(x3716-0)+@abs(x3717-0)+@abs(x3718-0)+@abs(x3719-0)+@abs(x3720-0)+@abs(x381-1)+@abs(x382-0)+@abs(x383-0)+@abs(x384-0)+@abs(x385-0)+@abs(x386-0)+@abs(x387-0)+@abs(x388-0)+@abs(x389-0)+@abs(x3810-0)+@abs(x3811-0)+@abs(x3812-0)+@abs(x3813-0)+@abs(x3814-0)+@abs(x3815-0)+@abs(x3816-0)+@abs(x3817-0)+@abs(x3818-0)+@abs(x3819-0)+@abs(x3820-0)+@abs(x391-1)+@abs(x392-0)+@abs(x393-0)+@abs(x394-0)+@abs(x395-0)+@abs(x396-0)+@abs(x397-0)+@abs(x398-0)+@abs(x399-0)+@abs(x3910-0)+@abs(x3911-0)+@abs(x3912-0)+@abs(x3913-0)+@abs(x3914-0)+@abs(x3915-0)+@abs(x3916-0)+@abs(x3917-0)+@abs(x3918-0)+@abs(x3919-0)+@abs(x3920-0)+@abs(x401-1)+@abs(x402-0)+@abs(x403-0)+@abs(x404-0)+@abs(x405-0)+@abs(x406-0)+@abs(x407-0)+@abs(x408-0)+@abs(x409-0)+@abs(x4010-0)+@abs(x4011-0)+@abs(x4012-0)+@abs(x4013-0)+@abs(x4014-0)+@abs(x4015-0)+@abs(x4016-0)+@abs(x4017-0)+@abs(x4018-0)+@abs(x4019-0)+@abs(x4020-0)+@abs(x411-1)+@abs(x412-0)+@abs(x413-0)+@abs(x414-0)+@abs(x415-0)+@abs(x416-0)+@abs(x417-0)+@abs(x418-0)+@abs(x419-0)+@abs(x4110-0)+@abs(x4111-0)+@abs(x4112-0)+@abs(x4113-0)+@abs(x4114-0)+@abs(x4115-0)+@abs(x4116-0)+@abs(x4117-0)+@abs(x4118-0)+@abs(x4119-0)+@abs(x4120-0)+@abs(x421-1)+@abs(x422-0)+@abs(x423-0)+@abs(x424-0)+@abs(x425-0)+@abs(x426-0)+@abs(x427-0)+@abs(x428-0)+@abs(x429-0)+@abs(x4210-0)+@abs(x4211-0)+@abs(x4212-0)+@abs(x4213-0)+@abs(x4214-0)+@abs(x4215-0)+@abs(x4216-0)+@abs(x4217-0)+@abs(x4218-0)+@abs(x4219-0)+@abs(x4220-0)+@abs(x431-1)+@abs(x432-0)+@abs(x433-0)+@abs(x434-0)+@abs(x435-0)+@abs(x436-0)+@abs(x437-0)+@abs(x438-0)+@abs(x439-0)+@abs(x4310-0)+@abs(x4311-0)+@abs(x4312-0)+@abs(x4313-0)+@abs(x4314-0)+@abs(x4315-0)+@abs(x4316-0)+@abs(x4317-0)+@abs(x4318-0)+@abs(x4319-0)+@abs(x4320-0)+@abs(x441-1)+@abs(x442-0)+@abs(x443-0)+@abs(x444-0)+@abs(x445-0)+@abs(x446-0)+@abs(x447-0)+@abs(x448-0)+@abs(x449-0)+@abs(x4410-0)+@abs(x4411-0)+@abs(x4412-0)+@abs(x4413-0)+@abs(x4414-0)+@abs(x4415-0)+@abs(x4416-0)+@abs(x4417-0)+@abs(x4418-0)+@abs(x4419-0)+@abs(x4420-0)+@abs(x451-1)+@abs(x452-0)+@abs(x453-0)+@abs(x454-0)+@abs(x455-0)+@abs(x456-0)+@abs(x457-0)+@abs(x458-0)+@abs(x459-0)+@abs(x4510-0)+@abs(x4511-0)+@abs(x4512-0)+@abs(x4513-0)+@abs(x4514-0)+@abs(x4515-0)+@abs(x4516-0)+@abs(x4517-0)+@abs(x4518-0)+@abs(x4519-0)+@abs(x4520-0)+@abs(x461-1)+@abs(x462-0)+@abs(x463-0)+@abs(x464-0)+@abs(x465-0)+@abs(x466-0)+@abs(x467-0)+@abs(x468-0)+@abs(x469-0)+@abs(x4610-0)+@abs(x4611-0)+@abs(x4612-0)+@abs(x4613-0)+@abs(x4614-0)+@abs(x4615-0)+@abs(x4616-0)+@abs(x4617-0)+@abs(x4618-0)+@abs(x4619-0)+@abs(x4620-0)+@abs(x471-1)+@abs(x472-0)+@abs(x473-0)+@abs(x474-0)+@abs(x475-0)+@abs(x476-0)+@abs(x477-0)+@abs(x478-0)+@abs(x479-0)+@abs(x4710-0)+@abs(x4711-0)+@abs(x4712-0)+@abs(x4713-0)+@abs(x4714-0)+@abs(x4715-0)+@abs(x4716-0)+@abs(x4717-0)+@abs(x4718-0)+@abs(x4719-0)+@abs(x4720-0)+@abs(x481-1)+@abs(x482-0)+@abs(x483-0)+@abs(x484-0)+@abs(x485-0)+@abs(x486-0)+@abs(x487-0)+@abs(x488-0)+@abs(x489-0)+@abs(x4810-0)+@abs(x4811-0)+@abs(x4812-0)+@abs(x4813-0)+@abs(x4814-0)+@abs(x4815-0)+@abs(x4816-0)+@abs(x4817-0)+@abs(x4818-0)+@abs(x4819-0)+@abs(x4820-0)+@abs(x491-1)+@abs(x492-0)+@abs(x493-0)+@abs(x494-0)+@abs(x495-0)+@abs(x496-0)+@abs(x497-0)+@abs(x498-0)+@abs(x499-0)+@abs(x4910-0)+@abs(x4911-0)+@abs(x4912-0)+@abs(x4913-0)+@abs(x4914-0)+@abs(x4915-0)+@abs(x4916-0)+@abs(x4917-0)+@abs(x4918-0)+@abs(x4919-0)+@abs(x4920-0)+@abs(x501-1)+@abs(x502-0)+@abs(x503-0)+@abs(x504-0)+@abs(x505-0)+@abs(x506-0)+@abs(x507-0)+@abs(x508-0)+@abs(x509-0)+@abs(x5010-0)+@abs(x5011-0)+@abs(x5012-0)+@abs(x5013-0)+@abs(x5014-0)+@abs(x5015-0)+@abs(x5016-0)+@abs(x5017-0)+@abs(x5018-0)+@abs(x5019-0)+@abs(x5020-0)+)\*10+(z1+z2+z3+z4+z5+z6+z7+z8+z9+z10+z11+z12+z13+z14+z15+z16+z17+z18+z19+z20+z21+z22+z23+z24+z25+z26+z27+z28+z29+z30+z31+z32+z33+z34+z35+z36+z37+z38+z39+z40+z41+z42+z43+z44+z45+z46+z47+z48+z49+z50)\*1;

(x11+x12+x13+x14+x15+x16+x17+x18+x19+x110+x111+x112+x113+x114+x115+x116+x117+x118+x119+x120)\*y1+(x21+x22+x23+x24+x25+x26+x27+x28+x29+x210+x211+x212+x213+x214+x215+x216+x217+x218+x219+x220)\*y2+(x31+x32+x33+x34+x35+x36+x37+x38+x39+x310+x311+x312+x313+x314+x315+x316+x317+x318+x319+x320)\*y3+(x41+x42+x43+x44+x45+x46+x47+x48+x49+x410+x411+x412+x413+x414+x415+x416+x417+x418+x419+x420)\*y4+(x51+x52+x53+x54+x55+x56+x57+x58+x59+x510+x511+x512+x513+x514+x515+x516+x517+x518+x519+x520)\*y5+(x61+x62+x63+x64+x65+x66+x67+x68+x69+x610+x611+x612+x613+x614+x615+x616+x617+x618+x619+x620)\*y6+(x71+x72+x73+x74+x75+x76+x77+x78+x79+x710+x711+x712+x713+x714+x715+x716+x717+x718+x719+x720)\*y7+(x81+x82+x83+x84+x85+x86+x87+x88+x89+x810+x811+x812+x813+x814+x815+x816+x817+x818+x819+x820)\*y8+(x91+x92+x93+x94+x95+x96+x97+x98+x99+x910+x911+x912+x913+x914+x915+x916+x917+x918+x919+x920)\*y9+(x101+x102+x103+x104+x105+x106+x107+x108+x109+x1010+x1011+x1012+x1013+x1014+x1015+x1016+x1017+x1018+x1019+x1020)\*y10+(x111+x112+x113+x114+x115+x116+x117+x118+x119+x1110+x1111+x1112+x1113+x1114+x1115+x1116+x1117+x1118+x1119+x1120)\*y11+(x121+x122+x123+x124+x125+x126+x127+x128+x129+x1210+x1211+x1212+x1213+x1214+x1215+x1216+x1217+x1218+x1219+x1220)\*y12+(x131+x132+x133+x134+x135+x136+x137+x138+x139+x1310+x1311+x1312+x1313+x1314+x1315+x1316+x1317+x1318+x1319+x1320)\*y13+(x141+x142+x143+x144+x145+x146+x147+x148+x149+x1410+x1411+x1412+x1413+x1414+x1415+x1416+x1417+x1418+x1419+x1420)\*y14+(x151+x152+x153+x154+x155+x156+x157+x158+x159+x1510+x1511+x1512+x1513+x1514+x1515+x1516+x1517+x1518+x1519+x1520)\*y15+(x161+x162+x163+x164+x165+x166+x167+x168+x169+x1610+x1611+x1612+x1613+x1614+x1615+x1616+x1617+x1618+x1619+x1620)\*y16+(x171+x172+x173+x174+x175+x176+x177+x178+x179+x1710+x1711+x1712+x1713+x1714+x1715+x1716+x1717+x1718+x1719+x1720)\*y17+(x181+x182+x183+x184+x185+x186+x187+x188+x189+x1810+x1811+x1812+x1813+x1814+x1815+x1816+x1817+x1818+x1819+x1820)\*y18+(x191+x192+x193+x194+x195+x196+x197+x198+x199+x1910+x1911+x1912+x1913+x1914+x1915+x1916+x1917+x1918+x1919+x1920)\*y19+(x201+x202+x203+x204+x205+x206+x207+x208+x209+x2010+x2011+x2012+x2013+x2014+x2015+x2016+x2017+x2018+x2019+x2020)\*y20+(x211+x212+x213+x214+x215+x216+x217+x218+x219+x2110+x2111+x2112+x2113+x2114+x2115+x2116+x2117+x2118+x2119+x2120)\*y21+(x221+x222+x223+x224+x225+x226+x227+x228+x229+x2210+x2211+x2212+x2213+x2214+x2215+x2216+x2217+x2218+x2219+x2220)\*y22+(x231+x232+x233+x234+x235+x236+x237+x238+x239+x2310+x2311+x2312+x2313+x2314+x2315+x2316+x2317+x2318+x2319+x2320)\*y23+(x241+x242+x243+x244+x245+x246+x247+x248+x249+x2410+x2411+x2412+x2413+x2414+x2415+x2416+x2417+x2418+x2419+x2420)\*y24+(x251+x252+x253+x254+x255+x256+x257+x258+x259+x2510+x2511+x2512+x2513+x2514+x2515+x2516+x2517+x2518+x2519+x2520)\*y25+(x261+x262+x263+x264+x265+x266+x267+x268+x269+x2610+x2611+x2612+x2613+x2614+x2615+x2616+x2617+x2618+x2619+x2620)\*y26+(x271+x272+x273+x274+x275+x276+x277+x278+x279+x2710+x2711+x2712+x2713+x2714+x2715+x2716+x2717+x2718+x2719+x2720)\*y27+(x281+x282+x283+x284+x285+x286+x287+x288+x289+x2810+x2811+x2812+x2813+x2814+x2815+x2816+x2817+x2818+x2819+x2820)\*y28+(x291+x292+x293+x294+x295+x296+x297+x298+x299+x2910+x2911+x2912+x2913+x2914+x2915+x2916+x2917+x2918+x2919+x2920)\*y29+(x301+x302+x303+x304+x305+x306+x307+x308+x309+x3010+x3011+x3012+x3013+x3014+x3015+x3016+x3017+x3018+x3019+x3020)\*y30+(x311+x312+x313+x314+x315+x316+x317+x318+x319+x3110+x3111+x3112+x3113+x3114+x3115+x3116+x3117+x3118+x3119+x3120)\*y31+(x321+x322+x323+x324+x325+x326+x327+x328+x329+x3210+x3211+x3212+x3213+x3214+x3215+x3216+x3217+x3218+x3219+x3220)\*y32+(x331+x332+x333+x334+x335+x336+x337+x338+x339+x3310+x3311+x3312+x3313+x3314+x3315+x3316+x3317+x3318+x3319+x3320)\*y33+(x341+x342+x343+x344+x345+x346+x347+x348+x349+x3410+x3411+x3412+x3413+x3414+x3415+x3416+x3417+x3418+x3419+x3420)\*y34+(x351+x352+x353+x354+x355+x356+x357+x358+x359+x3510+x3511+x3512+x3513+x3514+x3515+x3516+x3517+x3518+x3519+x3520)\*y35+(x361+x362+x363+x364+x365+x366+x367+x368+x369+x3610+x3611+x3612+x3613+x3614+x3615+x3616+x3617+x3618+x3619+x3620)\*y36+(x371+x372+x373+x374+x375+x376+x377+x378+x379+x3710+x3711+x3712+x3713+x3714+x3715+x3716+x3717+x3718+x3719+x3720)\*y37+(x381+x382+x383+x384+x385+x386+x387+x388+x389+x3810+x3811+x3812+x3813+x3814+x3815+x3816+x3817+x3818+x3819+x3820)\*y38+(x391+x392+x393+x394+x395+x396+x397+x398+x399+x3910+x3911+x3912+x3913+x3914+x3915+x3916+x3917+x3918+x3919+x3920)\*y39+(x401+x402+x403+x404+x405+x406+x407+x408+x409+x4010+x4011+x4012+x4013+x4014+x4015+x4016+x4017+x4018+x4019+x4020)\*y40+(x411+x412+x413+x414+x415+x416+x417+x418+x419+x4110+x4111+x4112+x4113+x4114+x4115+x4116+x4117+x4118+x4119+x4120)\*y41+(x421+x422+x423+x424+x425+x426+x427+x428+x429+x4210+x4211+x4212+x4213+x4214+x4215+x4216+x4217+x4218+x4219+x4220)\*y42+(x431+x432+x433+x434+x435+x436+x437+x438+x439+x4310+x4311+x4312+x4313+x4314+x4315+x4316+x4317+x4318+x4319+x4320)\*y43+(x441+x442+x443+x444+x445+x446+x447+x448+x449+x4410+x4411+x4412+x4413+x4414+x4415+x4416+x4417+x4418+x4419+x4420)\*y44+(x451+x452+x453+x454+x455+x456+x457+x458+x459+x4510+x4511+x4512+x4513+x4514+x4515+x4516+x4517+x4518+x4519+x4520)\*y45+(x461+x462+x463+x464+x465+x466+x467+x468+x469+x4610+x4611+x4612+x4613+x4614+x4615+x4616+x4617+x4618+x4619+x4620)\*y46+(x471+x472+x473+x474+x475+x476+x477+x478+x479+x4710+x4711+x4712+x4713+x4714+x4715+x4716+x4717+x4718+x4719+x4720)\*y47+(x481+x482+x483+x484+x485+x486+x487+x488+x489+x4810+x4811+x4812+x4813+x4814+x4815+x4816+x4817+x4818+x4819+x4820)\*y48+(x491+x492+x493+x494+x495+x496+x497+x498+x499+x4910+x4911+x4912+x4913+x4914+x4915+x4916+x4917+x4918+x4919+x4920)\*y49+(x501+x502+x503+x504+x505+x506+x507+x508+x509+x5010+x5011+x5012+x5013+x5014+x5015+x5016+x5017+x5018+x5019+x5020)\*y50=120;

x11\*y1+x21\*y2+x31\*y3+x41\*y4+x51\*y5+x61\*y6+x71\*y7+x81\*y8+x91\*y9+x101\*y10+x111\*y11+x121\*y12+x131\*y13+x141\*y14+x151\*y15+x161\*y16+x171\*y17+x181\*y18+x191\*y19+x201\*y20+x211\*y21+x221\*y22+x231\*y23+x241\*y24+x251\*y25+x261\*y26+x271\*y27+x281\*y28+x291\*y29+x301\*y30+x311\*y31+x321\*y32+x331\*y33+x341\*y34+x351\*y35+x361\*y36+x371\*y37+x381\*y38+x391\*y39+x401\*y40+x411\*y41+x421\*y42+x431\*y43+x441\*y44+x451\*y45+x461\*y46+x471\*y47+x481\*y48+x491\*y49+x501\*y50<=320;

x12\*y1+x22\*y2+x32\*y3+x42\*y4+x52\*y5+x62\*y6+x72\*y7+x82\*y8+x92\*y9+x102\*y10+x112\*y11+x122\*y12+x132\*y13+x142\*y14+x152\*y15+x162\*y16+x172\*y17+x182\*y18+x192\*y19+x202\*y20+x212\*y21+x222\*y22+x232\*y23+x242\*y24+x252\*y25+x262\*y26+x272\*y27+x282\*y28+x292\*y29+x302\*y30+x312\*y31+x322\*y32+x332\*y33+x342\*y34+x352\*y35+x362\*y36+x372\*y37+x382\*y38+x392\*y39+x402\*y40+x412\*y41+x422\*y42+x432\*y43+x442\*y44+x452\*y45+x462\*y46+x472\*y47+x482\*y48+x492\*y49+x502\*y50<=320;

x13\*y1+x23\*y2+x33\*y3+x43\*y4+x53\*y5+x63\*y6+x73\*y7+x83\*y8+x93\*y9+x103\*y10+x113\*y11+x123\*y12+x133\*y13+x143\*y14+x153\*y15+x163\*y16+x173\*y17+x183\*y18+x193\*y19+x203\*y20+x213\*y21+x223\*y22+x233\*y23+x243\*y24+x253\*y25+x263\*y26+x273\*y27+x283\*y28+x293\*y29+x303\*y30+x313\*y31+x323\*y32+x333\*y33+x343\*y34+x353\*y35+x363\*y36+x373\*y37+x383\*y38+x393\*y39+x403\*y40+x413\*y41+x423\*y42+x433\*y43+x443\*y44+x453\*y45+x463\*y46+x473\*y47+x483\*y48+x493\*y49+x503\*y50<=320;

x14\*y1+x24\*y2+x34\*y3+x44\*y4+x54\*y5+x64\*y6+x74\*y7+x84\*y8+x94\*y9+x104\*y10+x114\*y11+x124\*y12+x134\*y13+x144\*y14+x154\*y15+x164\*y16+x174\*y17+x184\*y18+x194\*y19+x204\*y20+x214\*y21+x224\*y22+x234\*y23+x244\*y24+x254\*y25+x264\*y26+x274\*y27+x284\*y28+x294\*y29+x304\*y30+x314\*y31+x324\*y32+x334\*y33+x344\*y34+x354\*y35+x364\*y36+x374\*y37+x384\*y38+x394\*y39+x404\*y40+x414\*y41+x424\*y42+x434\*y43+x444\*y44+x454\*y45+x464\*y46+x474\*y47+x484\*y48+x494\*y49+x504\*y50<=320;

x15\*y1+x25\*y2+x35\*y3+x45\*y4+x55\*y5+x65\*y6+x75\*y7+x85\*y8+x95\*y9+x105\*y10+x115\*y11+x125\*y12+x135\*y13+x145\*y14+x155\*y15+x165\*y16+x175\*y17+x185\*y18+x195\*y19+x205\*y20+x215\*y21+x225\*y22+x235\*y23+x245\*y24+x255\*y25+x265\*y26+x275\*y27+x285\*y28+x295\*y29+x305\*y30+x315\*y31+x325\*y32+x335\*y33+x345\*y34+x355\*y35+x365\*y36+x375\*y37+x385\*y38+x395\*y39+x405\*y40+x415\*y41+x425\*y42+x435\*y43+x445\*y44+x455\*y45+x465\*y46+x475\*y47+x485\*y48+x495\*y49+x505\*y50<=320;

x16\*y1+x26\*y2+x36\*y3+x46\*y4+x56\*y5+x66\*y6+x76\*y7+x86\*y8+x96\*y9+x106\*y10+x116\*y11+x126\*y12+x136\*y13+x146\*y14+x156\*y15+x166\*y16+x176\*y17+x186\*y18+x196\*y19+x206\*y20+x216\*y21+x226\*y22+x236\*y23+x246\*y24+x256\*y25+x266\*y26+x276\*y27+x286\*y28+x296\*y29+x306\*y30+x316\*y31+x326\*y32+x336\*y33+x346\*y34+x356\*y35+x366\*y36+x376\*y37+x386\*y38+x396\*y39+x406\*y40+x416\*y41+x426\*y42+x436\*y43+x446\*y44+x456\*y45+x466\*y46+x476\*y47+x486\*y48+x496\*y49+x506\*y50<=320;

x17\*y1+x27\*y2+x37\*y3+x47\*y4+x57\*y5+x67\*y6+x77\*y7+x87\*y8+x97\*y9+x107\*y10+x117\*y11+x127\*y12+x137\*y13+x147\*y14+x157\*y15+x167\*y16+x177\*y17+x187\*y18+x197\*y19+x207\*y20+x217\*y21+x227\*y22+x237\*y23+x247\*y24+x257\*y25+x267\*y26+x277\*y27+x287\*y28+x297\*y29+x307\*y30+x317\*y31+x327\*y32+x337\*y33+x347\*y34+x357\*y35+x367\*y36+x377\*y37+x387\*y38+x397\*y39+x407\*y40+x417\*y41+x427\*y42+x437\*y43+x447\*y44+x457\*y45+x467\*y46+x477\*y47+x487\*y48+x497\*y49+x507\*y50<=320;

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y50>=0;

y50<=80;

x11+x12+x13+x14+x15+x16+x17+x18+x19+x110+x111+x112+x113+x114+x115+x116+x117+x118+x119+x120<=1;

x21+x22+x23+x24+x25+x26+x27+x28+x29+x210+x211+x212+x213+x214+x215+x216+x217+x218+x219+x220<=1;

x31+x32+x33+x34+x35+x36+x37+x38+x39+x310+x311+x312+x313+x314+x315+x316+x317+x318+x319+x320<=1;

x41+x42+x43+x44+x45+x46+x47+x48+x49+x410+x411+x412+x413+x414+x415+x416+x417+x418+x419+x420<=1;

x51+x52+x53+x54+x55+x56+x57+x58+x59+x510+x511+x512+x513+x514+x515+x516+x517+x518+x519+x520<=1;

x61+x62+x63+x64+x65+x66+x67+x68+x69+x610+x611+x612+x613+x614+x615+x616+x617+x618+x619+x620<=1;

x71+x72+x73+x74+x75+x76+x77+x78+x79+x710+x711+x712+x713+x714+x715+x716+x717+x718+x719+x720<=1;

x81+x82+x83+x84+x85+x86+x87+x88+x89+x810+x811+x812+x813+x814+x815+x816+x817+x818+x819+x820<=1;

x91+x92+x93+x94+x95+x96+x97+x98+x99+x910+x911+x912+x913+x914+x915+x916+x917+x918+x919+x920<=1;

x101+x102+x103+x104+x105+x106+x107+x108+x109+x1010+x1011+x1012+x1013+x1014+x1015+x1016+x1017+x1018+x1019+x1020<=1;

x111+x112+x113+x114+x115+x116+x117+x118+x119+x1110+x1111+x1112+x1113+x1114+x1115+x1116+x1117+x1118+x1119+x1120<=1;

x121+x122+x123+x124+x125+x126+x127+x128+x129+x1210+x1211+x1212+x1213+x1214+x1215+x1216+x1217+x1218+x1219+x1220<=1;

x131+x132+x133+x134+x135+x136+x137+x138+x139+x1310+x1311+x1312+x1313+x1314+x1315+x1316+x1317+x1318+x1319+x1320<=1;

x141+x142+x143+x144+x145+x146+x147+x148+x149+x1410+x1411+x1412+x1413+x1414+x1415+x1416+x1417+x1418+x1419+x1420<=1;

x151+x152+x153+x154+x155+x156+x157+x158+x159+x1510+x1511+x1512+x1513+x1514+x1515+x1516+x1517+x1518+x1519+x1520<=1;

x161+x162+x163+x164+x165+x166+x167+x168+x169+x1610+x1611+x1612+x1613+x1614+x1615+x1616+x1617+x1618+x1619+x1620<=1;

x171+x172+x173+x174+x175+x176+x177+x178+x179+x1710+x1711+x1712+x1713+x1714+x1715+x1716+x1717+x1718+x1719+x1720<=1;

x181+x182+x183+x184+x185+x186+x187+x188+x189+x1810+x1811+x1812+x1813+x1814+x1815+x1816+x1817+x1818+x1819+x1820<=1;

x191+x192+x193+x194+x195+x196+x197+x198+x199+x1910+x1911+x1912+x1913+x1914+x1915+x1916+x1917+x1918+x1919+x1920<=1;

x201+x202+x203+x204+x205+x206+x207+x208+x209+x2010+x2011+x2012+x2013+x2014+x2015+x2016+x2017+x2018+x2019+x2020<=1;

x211+x212+x213+x214+x215+x216+x217+x218+x219+x2110+x2111+x2112+x2113+x2114+x2115+x2116+x2117+x2118+x2119+x2120<=1;

x221+x222+x223+x224+x225+x226+x227+x228+x229+x2210+x2211+x2212+x2213+x2214+x2215+x2216+x2217+x2218+x2219+x2220<=1;

x231+x232+x233+x234+x235+x236+x237+x238+x239+x2310+x2311+x2312+x2313+x2314+x2315+x2316+x2317+x2318+x2319+x2320<=1;

x241+x242+x243+x244+x245+x246+x247+x248+x249+x2410+x2411+x2412+x2413+x2414+x2415+x2416+x2417+x2418+x2419+x2420<=1;

x251+x252+x253+x254+x255+x256+x257+x258+x259+x2510+x2511+x2512+x2513+x2514+x2515+x2516+x2517+x2518+x2519+x2520<=1;

x261+x262+x263+x264+x265+x266+x267+x268+x269+x2610+x2611+x2612+x2613+x2614+x2615+x2616+x2617+x2618+x2619+x2620<=1;

x271+x272+x273+x274+x275+x276+x277+x278+x279+x2710+x2711+x2712+x2713+x2714+x2715+x2716+x2717+x2718+x2719+x2720<=1;

x281+x282+x283+x284+x285+x286+x287+x288+x289+x2810+x2811+x2812+x2813+x2814+x2815+x2816+x2817+x2818+x2819+x2820<=1;

x291+x292+x293+x294+x295+x296+x297+x298+x299+x2910+x2911+x2912+x2913+x2914+x2915+x2916+x2917+x2918+x2919+x2920<=1;

x301+x302+x303+x304+x305+x306+x307+x308+x309+x3010+x3011+x3012+x3013+x3014+x3015+x3016+x3017+x3018+x3019+x3020<=1;

x311+x312+x313+x314+x315+x316+x317+x318+x319+x3110+x3111+x3112+x3113+x3114+x3115+x3116+x3117+x3118+x3119+x3120<=1;

x321+x322+x323+x324+x325+x326+x327+x328+x329+x3210+x3211+x3212+x3213+x3214+x3215+x3216+x3217+x3218+x3219+x3220<=1;

x331+x332+x333+x334+x335+x336+x337+x338+x339+x3310+x3311+x3312+x3313+x3314+x3315+x3316+x3317+x3318+x3319+x3320<=1;

x341+x342+x343+x344+x345+x346+x347+x348+x349+x3410+x3411+x3412+x3413+x3414+x3415+x3416+x3417+x3418+x3419+x3420<=1;

x351+x352+x353+x354+x355+x356+x357+x358+x359+x3510+x3511+x3512+x3513+x3514+x3515+x3516+x3517+x3518+x3519+x3520<=1;

x361+x362+x363+x364+x365+x366+x367+x368+x369+x3610+x3611+x3612+x3613+x3614+x3615+x3616+x3617+x3618+x3619+x3620<=1;

x371+x372+x373+x374+x375+x376+x377+x378+x379+x3710+x3711+x3712+x3713+x3714+x3715+x3716+x3717+x3718+x3719+x3720<=1;

x381+x382+x383+x384+x385+x386+x387+x388+x389+x3810+x3811+x3812+x3813+x3814+x3815+x3816+x3817+x3818+x3819+x3820<=1;

x391+x392+x393+x394+x395+x396+x397+x398+x399+x3910+x3911+x3912+x3913+x3914+x3915+x3916+x3917+x3918+x3919+x3920<=1;

x401+x402+x403+x404+x405+x406+x407+x408+x409+x4010+x4011+x4012+x4013+x4014+x4015+x4016+x4017+x4018+x4019+x4020<=1;

x411+x412+x413+x414+x415+x416+x417+x418+x419+x4110+x4111+x4112+x4113+x4114+x4115+x4116+x4117+x4118+x4119+x4120<=1;

x421+x422+x423+x424+x425+x426+x427+x428+x429+x4210+x4211+x4212+x4213+x4214+x4215+x4216+x4217+x4218+x4219+x4220<=1;

x431+x432+x433+x434+x435+x436+x437+x438+x439+x4310+x4311+x4312+x4313+x4314+x4315+x4316+x4317+x4318+x4319+x4320<=1;

x441+x442+x443+x444+x445+x446+x447+x448+x449+x4410+x4411+x4412+x4413+x4414+x4415+x4416+x4417+x4418+x4419+x4420<=1;

x451+x452+x453+x454+x455+x456+x457+x458+x459+x4510+x4511+x4512+x4513+x4514+x4515+x4516+x4517+x4518+x4519+x4520<=1;

x461+x462+x463+x464+x465+x466+x467+x468+x469+x4610+x4611+x4612+x4613+x4614+x4615+x4616+x4617+x4618+x4619+x4620<=1;

x471+x472+x473+x474+x475+x476+x477+x478+x479+x4710+x4711+x4712+x4713+x4714+x4715+x4716+x4717+x4718+x4719+x4720<=1;

x481+x482+x483+x484+x485+x486+x487+x488+x489+x4810+x4811+x4812+x4813+x4814+x4815+x4816+x4817+x4818+x4819+x4820<=1;

x491+x492+x493+x494+x495+x496+x497+x498+x499+x4910+x4911+x4912+x4913+x4914+x4915+x4916+x4917+x4918+x4919+x4920<=1;

x501+x502+x503+x504+x505+x506+x507+x508+x509+x5010+x5011+x5012+x5013+x5014+x5015+x5016+x5017+x5018+x5019+x5020<=1;

(1-x11-x12-x13-x14-x15-x16-x17-x18-x19-x110-x111-x112-x113-x114-x115-x116-x117-x118-x119-x120)\*y1=0;

(1-x21-x22-x23-x24-x25-x26-x27-x28-x29-x210-x211-x212-x213-x214-x215-x216-x217-x218-x219-x220)\*y2=0;

(1-x31-x32-x33-x34-x35-x36-x37-x38-x39-x310-x311-x312-x313-x314-x315-x316-x317-x318-x319-x320)\*y3=0;

(1-x41-x42-x43-x44-x45-x46-x47-x48-x49-x410-x411-x412-x413-x414-x415-x416-x417-x418-x419-x420)\*y4=0;

(1-x51-x52-x53-x54-x55-x56-x57-x58-x59-x510-x511-x512-x513-x514-x515-x516-x517-x518-x519-x520)\*y5=0;

(1-x61-x62-x63-x64-x65-x66-x67-x68-x69-x610-x611-x612-x613-x614-x615-x616-x617-x618-x619-x620)\*y6=0;

(1-x71-x72-x73-x74-x75-x76-x77-x78-x79-x710-x711-x712-x713-x714-x715-x716-x717-x718-x719-x720)\*y7=0;

(1-x81-x82-x83-x84-x85-x86-x87-x88-x89-x810-x811-x812-x813-x814-x815-x816-x817-x818-x819-x820)\*y8=0;

(1-x91-x92-x93-x94-x95-x96-x97-x98-x99-x910-x911-x912-x913-x914-x915-x916-x917-x918-x919-x920)\*y9=0;

(1-x101-x102-x103-x104-x105-x106-x107-x108-x109-x1010-x1011-x1012-x1013-x1014-x1015-x1016-x1017-x1018-x1019-x1020)\*y10=0;

(1-x111-x112-x113-x114-x115-x116-x117-x118-x119-x1110-x1111-x1112-x1113-x1114-x1115-x1116-x1117-x1118-x1119-x1120)\*y11=0;

(1-x121-x122-x123-x124-x125-x126-x127-x128-x129-x1210-x1211-x1212-x1213-x1214-x1215-x1216-x1217-x1218-x1219-x1220)\*y12=0;

(1-x131-x132-x133-x134-x135-x136-x137-x138-x139-x1310-x1311-x1312-x1313-x1314-x1315-x1316-x1317-x1318-x1319-x1320)\*y13=0;

(1-x141-x142-x143-x144-x145-x146-x147-x148-x149-x1410-x1411-x1412-x1413-x1414-x1415-x1416-x1417-x1418-x1419-x1420)\*y14=0;

(1-x151-x152-x153-x154-x155-x156-x157-x158-x159-x1510-x1511-x1512-x1513-x1514-x1515-x1516-x1517-x1518-x1519-x1520)\*y15=0;

(1-x161-x162-x163-x164-x165-x166-x167-x168-x169-x1610-x1611-x1612-x1613-x1614-x1615-x1616-x1617-x1618-x1619-x1620)\*y16=0;

(1-x171-x172-x173-x174-x175-x176-x177-x178-x179-x1710-x1711-x1712-x1713-x1714-x1715-x1716-x1717-x1718-x1719-x1720)\*y17=0;

(1-x181-x182-x183-x184-x185-x186-x187-x188-x189-x1810-x1811-x1812-x1813-x1814-x1815-x1816-x1817-x1818-x1819-x1820)\*y18=0;

(1-x191-x192-x193-x194-x195-x196-x197-x198-x199-x1910-x1911-x1912-x1913-x1914-x1915-x1916-x1917-x1918-x1919-x1920)\*y19=0;

(1-x201-x202-x203-x204-x205-x206-x207-x208-x209-x2010-x2011-x2012-x2013-x2014-x2015-x2016-x2017-x2018-x2019-x2020)\*y20=0;

(1-x211-x212-x213-x214-x215-x216-x217-x218-x219-x2110-x2111-x2112-x2113-x2114-x2115-x2116-x2117-x2118-x2119-x2120)\*y21=0;

(1-x221-x222-x223-x224-x225-x226-x227-x228-x229-x2210-x2211-x2212-x2213-x2214-x2215-x2216-x2217-x2218-x2219-x2220)\*y22=0;

(1-x231-x232-x233-x234-x235-x236-x237-x238-x239-x2310-x2311-x2312-x2313-x2314-x2315-x2316-x2317-x2318-x2319-x2320)\*y23=0;

(1-x241-x242-x243-x244-x245-x246-x247-x248-x249-x2410-x2411-x2412-x2413-x2414-x2415-x2416-x2417-x2418-x2419-x2420)\*y24=0;

(1-x251-x252-x253-x254-x255-x256-x257-x258-x259-x2510-x2511-x2512-x2513-x2514-x2515-x2516-x2517-x2518-x2519-x2520)\*y25=0;

(1-x261-x262-x263-x264-x265-x266-x267-x268-x269-x2610-x2611-x2612-x2613-x2614-x2615-x2616-x2617-x2618-x2619-x2620)\*y26=0;

(1-x271-x272-x273-x274-x275-x276-x277-x278-x279-x2710-x2711-x2712-x2713-x2714-x2715-x2716-x2717-x2718-x2719-x2720)\*y27=0;

(1-x281-x282-x283-x284-x285-x286-x287-x288-x289-x2810-x2811-x2812-x2813-x2814-x2815-x2816-x2817-x2818-x2819-x2820)\*y28=0;

(1-x291-x292-x293-x294-x295-x296-x297-x298-x299-x2910-x2911-x2912-x2913-x2914-x2915-x2916-x2917-x2918-x2919-x2920)\*y29=0;

(1-x301-x302-x303-x304-x305-x306-x307-x308-x309-x3010-x3011-x3012-x3013-x3014-x3015-x3016-x3017-x3018-x3019-x3020)\*y30=0;

(1-x311-x312-x313-x314-x315-x316-x317-x318-x319-x3110-x3111-x3112-x3113-x3114-x3115-x3116-x3117-x3118-x3119-x3120)\*y31=0;

(1-x321-x322-x323-x324-x325-x326-x327-x328-x329-x3210-x3211-x3212-x3213-x3214-x3215-x3216-x3217-x3218-x3219-x3220)\*y32=0;

(1-x331-x332-x333-x334-x335-x336-x337-x338-x339-x3310-x3311-x3312-x3313-x3314-x3315-x3316-x3317-x3318-x3319-x3320)\*y33=0;

(1-x341-x342-x343-x344-x345-x346-x347-x348-x349-x3410-x3411-x3412-x3413-x3414-x3415-x3416-x3417-x3418-x3419-x3420)\*y34=0;

(1-x351-x352-x353-x354-x355-x356-x357-x358-x359-x3510-x3511-x3512-x3513-x3514-x3515-x3516-x3517-x3518-x3519-x3520)\*y35=0;

(1-x361-x362-x363-x364-x365-x366-x367-x368-x369-x3610-x3611-x3612-x3613-x3614-x3615-x3616-x3617-x3618-x3619-x3620)\*y36=0;

(1-x371-x372-x373-x374-x375-x376-x377-x378-x379-x3710-x3711-x3712-x3713-x3714-x3715-x3716-x3717-x3718-x3719-x3720)\*y37=0;

(1-x381-x382-x383-x384-x385-x386-x387-x388-x389-x3810-x3811-x3812-x3813-x3814-x3815-x3816-x3817-x3818-x3819-x3820)\*y38=0;

(1-x391-x392-x393-x394-x395-x396-x397-x398-x399-x3910-x3911-x3912-x3913-x3914-x3915-x3916-x3917-x3918-x3919-x3920)\*y39=0;

(1-x401-x402-x403-x404-x405-x406-x407-x408-x409-x4010-x4011-x4012-x4013-x4014-x4015-x4016-x4017-x4018-x4019-x4020)\*y40=0;

(1-x411-x412-x413-x414-x415-x416-x417-x418-x419-x4110-x4111-x4112-x4113-x4114-x4115-x4116-x4117-x4118-x4119-x4120)\*y41=0;

(1-x421-x422-x423-x424-x425-x426-x427-x428-x429-x4210-x4211-x4212-x4213-x4214-x4215-x4216-x4217-x4218-x4219-x4220)\*y42=0;

(1-x431-x432-x433-x434-x435-x436-x437-x438-x439-x4310-x4311-x4312-x4313-x4314-x4315-x4316-x4317-x4318-x4319-x4320)\*y43=0;

(1-x441-x442-x443-x444-x445-x446-x447-x448-x449-x4410-x4411-x4412-x4413-x4414-x4415-x4416-x4417-x4418-x4419-x4420)\*y44=0;

(1-x451-x452-x453-x454-x455-x456-x457-x458-x459-x4510-x4511-x4512-x4513-x4514-x4515-x4516-x4517-x4518-x4519-x4520)\*y45=0;

(1-x461-x462-x463-x464-x465-x466-x467-x468-x469-x4610-x4611-x4612-x4613-x4614-x4615-x4616-x4617-x4618-x4619-x4620)\*y46=0;

(1-x471-x472-x473-x474-x475-x476-x477-x478-x479-x4710-x4711-x4712-x4713-x4714-x4715-x4716-x4717-x4718-x4719-x4720)\*y47=0;

(1-x481-x482-x483-x484-x485-x486-x487-x488-x489-x4810-x4811-x4812-x4813-x4814-x4815-x4816-x4817-x4818-x4819-x4820)\*y48=0;

(1-x491-x492-x493-x494-x495-x496-x497-x498-x499-x4910-x4911-x4912-x4913-x4914-x4915-x4916-x4917-x4918-x4919-x4920)\*y49=0;

(1-x501-x502-x503-x504-x505-x506-x507-x508-x509-x5010-x5011-x5012-x5013-x5014-x5015-x5016-x5017-x5018-x5019-x5020)\*y50=0;

(1-x11-x12-x13-x14-x15-x16-x17-x18-x19-x110-x111-x112-x113-x114-x115-x116-x117-x118-x119-x120)+y1>0.001;

(1-x21-x22-x23-x24-x25-x26-x27-x28-x29-x210-x211-x212-x213-x214-x215-x216-x217-x218-x219-x220)+y2>0.001;

(1-x31-x32-x33-x34-x35-x36-x37-x38-x39-x310-x311-x312-x313-x314-x315-x316-x317-x318-x319-x320)+y3>0.001;

(1-x41-x42-x43-x44-x45-x46-x47-x48-x49-x410-x411-x412-x413-x414-x415-x416-x417-x418-x419-x420)+y4>0.001;

(1-x51-x52-x53-x54-x55-x56-x57-x58-x59-x510-x511-x512-x513-x514-x515-x516-x517-x518-x519-x520)+y5>0.001;

(1-x61-x62-x63-x64-x65-x66-x67-x68-x69-x610-x611-x612-x613-x614-x615-x616-x617-x618-x619-x620)+y6>0.001;

(1-x71-x72-x73-x74-x75-x76-x77-x78-x79-x710-x711-x712-x713-x714-x715-x716-x717-x718-x719-x720)+y7>0.001;

(1-x81-x82-x83-x84-x85-x86-x87-x88-x89-x810-x811-x812-x813-x814-x815-x816-x817-x818-x819-x820)+y8>0.001;

(1-x91-x92-x93-x94-x95-x96-x97-x98-x99-x910-x911-x912-x913-x914-x915-x916-x917-x918-x919-x920)+y9>0.001;

(1-x101-x102-x103-x104-x105-x106-x107-x108-x109-x1010-x1011-x1012-x1013-x1014-x1015-x1016-x1017-x1018-x1019-x1020)+y10>0.001;

(1-x111-x112-x113-x114-x115-x116-x117-x118-x119-x1110-x1111-x1112-x1113-x1114-x1115-x1116-x1117-x1118-x1119-x1120)+y11>0.001;

(1-x121-x122-x123-x124-x125-x126-x127-x128-x129-x1210-x1211-x1212-x1213-x1214-x1215-x1216-x1217-x1218-x1219-x1220)+y12>0.001;

(1-x131-x132-x133-x134-x135-x136-x137-x138-x139-x1310-x1311-x1312-x1313-x1314-x1315-x1316-x1317-x1318-x1319-x1320)+y13>0.001;

(1-x141-x142-x143-x144-x145-x146-x147-x148-x149-x1410-x1411-x1412-x1413-x1414-x1415-x1416-x1417-x1418-x1419-x1420)+y14>0.001;

(1-x151-x152-x153-x154-x155-x156-x157-x158-x159-x1510-x1511-x1512-x1513-x1514-x1515-x1516-x1517-x1518-x1519-x1520)+y15>0.001;

(1-x161-x162-x163-x164-x165-x166-x167-x168-x169-x1610-x1611-x1612-x1613-x1614-x1615-x1616-x1617-x1618-x1619-x1620)+y16>0.001;

(1-x171-x172-x173-x174-x175-x176-x177-x178-x179-x1710-x1711-x1712-x1713-x1714-x1715-x1716-x1717-x1718-x1719-x1720)+y17>0.001;

(1-x181-x182-x183-x184-x185-x186-x187-x188-x189-x1810-x1811-x1812-x1813-x1814-x1815-x1816-x1817-x1818-x1819-x1820)+y18>0.001;

(1-x191-x192-x193-x194-x195-x196-x197-x198-x199-x1910-x1911-x1912-x1913-x1914-x1915-x1916-x1917-x1918-x1919-x1920)+y19>0.001;

(1-x201-x202-x203-x204-x205-x206-x207-x208-x209-x2010-x2011-x2012-x2013-x2014-x2015-x2016-x2017-x2018-x2019-x2020)+y20>0.001;

(1-x211-x212-x213-x214-x215-x216-x217-x218-x219-x2110-x2111-x2112-x2113-x2114-x2115-x2116-x2117-x2118-x2119-x2120)+y21>0.001;

(1-x221-x222-x223-x224-x225-x226-x227-x228-x229-x2210-x2211-x2212-x2213-x2214-x2215-x2216-x2217-x2218-x2219-x2220)+y22>0.001;

(1-x231-x232-x233-x234-x235-x236-x237-x238-x239-x2310-x2311-x2312-x2313-x2314-x2315-x2316-x2317-x2318-x2319-x2320)+y23>0.001;

(1-x241-x242-x243-x244-x245-x246-x247-x248-x249-x2410-x2411-x2412-x2413-x2414-x2415-x2416-x2417-x2418-x2419-x2420)+y24>0.001;

(1-x251-x252-x253-x254-x255-x256-x257-x258-x259-x2510-x2511-x2512-x2513-x2514-x2515-x2516-x2517-x2518-x2519-x2520)+y25>0.001;

(1-x261-x262-x263-x264-x265-x266-x267-x268-x269-x2610-x2611-x2612-x2613-x2614-x2615-x2616-x2617-x2618-x2619-x2620)+y26>0.001;

(1-x271-x272-x273-x274-x275-x276-x277-x278-x279-x2710-x2711-x2712-x2713-x2714-x2715-x2716-x2717-x2718-x2719-x2720)+y27>0.001;

(1-x281-x282-x283-x284-x285-x286-x287-x288-x289-x2810-x2811-x2812-x2813-x2814-x2815-x2816-x2817-x2818-x2819-x2820)+y28>0.001;

(1-x291-x292-x293-x294-x295-x296-x297-x298-x299-x2910-x2911-x2912-x2913-x2914-x2915-x2916-x2917-x2918-x2919-x2920)+y29>0.001;

(1-x301-x302-x303-x304-x305-x306-x307-x308-x309-x3010-x3011-x3012-x3013-x3014-x3015-x3016-x3017-x3018-x3019-x3020)+y30>0.001;

(1-x311-x312-x313-x314-x315-x316-x317-x318-x319-x3110-x3111-x3112-x3113-x3114-x3115-x3116-x3117-x3118-x3119-x3120)+y31>0.001;

(1-x321-x322-x323-x324-x325-x326-x327-x328-x329-x3210-x3211-x3212-x3213-x3214-x3215-x3216-x3217-x3218-x3219-x3220)+y32>0.001;

(1-x331-x332-x333-x334-x335-x336-x337-x338-x339-x3310-x3311-x3312-x3313-x3314-x3315-x3316-x3317-x3318-x3319-x3320)+y33>0.001;

(1-x341-x342-x343-x344-x345-x346-x347-x348-x349-x3410-x3411-x3412-x3413-x3414-x3415-x3416-x3417-x3418-x3419-x3420)+y34>0.001;

(1-x351-x352-x353-x354-x355-x356-x357-x358-x359-x3510-x3511-x3512-x3513-x3514-x3515-x3516-x3517-x3518-x3519-x3520)+y35>0.001;

(1-x361-x362-x363-x364-x365-x366-x367-x368-x369-x3610-x3611-x3612-x3613-x3614-x3615-x3616-x3617-x3618-x3619-x3620)+y36>0.001;

(1-x371-x372-x373-x374-x375-x376-x377-x378-x379-x3710-x3711-x3712-x3713-x3714-x3715-x3716-x3717-x3718-x3719-x3720)+y37>0.001;

(1-x381-x382-x383-x384-x385-x386-x387-x388-x389-x3810-x3811-x3812-x3813-x3814-x3815-x3816-x3817-x3818-x3819-x3820)+y38>0.001;

(1-x391-x392-x393-x394-x395-x396-x397-x398-x399-x3910-x3911-x3912-x3913-x3914-x3915-x3916-x3917-x3918-x3919-x3920)+y39>0.001;

(1-x401-x402-x403-x404-x405-x406-x407-x408-x409-x4010-x4011-x4012-x4013-x4014-x4015-x4016-x4017-x4018-x4019-x4020)+y40>0.001;

(1-x411-x412-x413-x414-x415-x416-x417-x418-x419-x4110-x4111-x4112-x4113-x4114-x4115-x4116-x4117-x4118-x4119-x4120)+y41>0.001;

(1-x421-x422-x423-x424-x425-x426-x427-x428-x429-x4210-x4211-x4212-x4213-x4214-x4215-x4216-x4217-x4218-x4219-x4220)+y42>0.001;

(1-x431-x432-x433-x434-x435-x436-x437-x438-x439-x4310-x4311-x4312-x4313-x4314-x4315-x4316-x4317-x4318-x4319-x4320)+y43>0.001;

(1-x441-x442-x443-x444-x445-x446-x447-x448-x449-x4410-x4411-x4412-x4413-x4414-x4415-x4416-x4417-x4418-x4419-x4420)+y44>0.001;

(1-x451-x452-x453-x454-x455-x456-x457-x458-x459-x4510-x4511-x4512-x4513-x4514-x4515-x4516-x4517-x4518-x4519-x4520)+y45>0.001;

(1-x461-x462-x463-x464-x465-x466-x467-x468-x469-x4610-x4611-x4612-x4613-x4614-x4615-x4616-x4617-x4618-x4619-x4620)+y46>0.001;

(1-x471-x472-x473-x474-x475-x476-x477-x478-x479-x4710-x4711-x4712-x4713-x4714-x4715-x4716-x4717-x4718-x4719-x4720)+y47>0.001;

(1-x481-x482-x483-x484-x485-x486-x487-x488-x489-x4810-x4811-x4812-x4813-x4814-x4815-x4816-x4817-x4818-x4819-x4820)+y48>0.001;

(1-x491-x492-x493-x494-x495-x496-x497-x498-x499-x4910-x4911-x4912-x4913-x4914-x4915-x4916-x4917-x4918-x4919-x4920)+y49>0.001;

(1-x501-x502-x503-x504-x505-x506-x507-x508-x509-x5010-x5011-x5012-x5013-x5014-x5015-x5016-x5017-x5018-x5019-x5020)+y50>0.001;

(1-z1)\*(y1-50)=0;

(1-z1)+(y1-50)\*(y1-30)>0;

(1-z2)\*(y2-50)=0;

(1-z2)+(y2-50)\*(y2-30)>0;

(1-z3)\*(y3-50)=0;

(1-z3)+(y3-50)\*(y3-30)>0;

(1-z4)\*(y4-50)=0;

(1-z4)+(y4-50)\*(y4-30)>0;

(1-z5)\*(y5-50)=0;

(1-z5)+(y5-50)\*(y5-30)>0;

(1-z6)\*(y6-50)=0;

(1-z6)+(y6-50)\*(y6-30)>0;

(1-z7)\*(y7-50)=0;

(1-z7)+(y7-50)\*(y7-30)>0;

(1-z8)\*(y8-50)=0;

(1-z8)+(y8-50)\*(y8-30)>0;

(1-z9)\*(y9-50)=0;

(1-z9)+(y9-50)\*(y9-30)>0;

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