Problem 1.23.3. Write a *class* called **p2** as decribed in Fig 1.36.

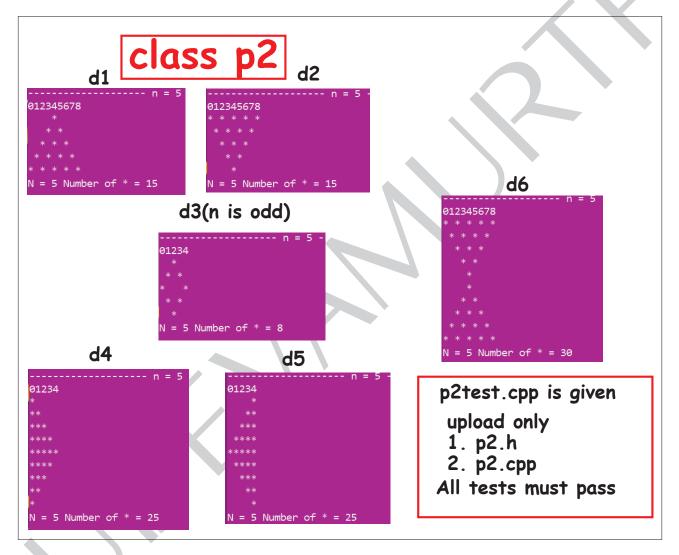


Figure 1.36: Various patterns

class p2 Rice on Square 1 = 1 Rice on Square 2 = 2 Rice on Square 3 = 4 Rice on Square 2 = 2 Rice on Square 3 = 4 Rice on Square 4 = 8 Rice on Square 5 = 16 Rice on Square 6 = 32 Rice on Square 7 = 64 Rice on Square 8 = 128 Rice on Square 9 = 256 Rice on Square 10 = 512 Rice on Square 11 = 102 a.riceOnChessBoard(64); Rice on Square 39 = 274877906944 Rice on Square 40 = 549755813888 Rice on Square 41 = 1099511627776 Rice on Square 42 = 2199023255552 Rice on Square 43 = 4398046511104 Rice on Square 44 = 8796093022208 Rice on Square 46 = 35184372088832 Rice on Square 47 = 70368744177664 Rice on Square 47 = 70368744177664 Rice on Square 48 = 140737488355328 Rice on Square 49 = 281474976710656 Rice on Square 50 = 562949953421312 Rice on Square 51 = 1125899906842624 Rice on Square 51 = 1125899906842624 Rice on Square 52 = 2251799813685248 Rice on Square 11 Rice on Square 12 Rice on Square 13 Rice on Square 14 Rice on Square 15 = 4096 = 8192 Rice on Square 16 Rice on Square 17 32768 Rice on Square 18 = 131072 Rice on Square 19 = 262144 Rice on Square 51 = 1125899900842624 Rice on Square 52 = 2251799813685248 Rice on Square 53 = 4503599627370496 Rice on Square 54 = 9007199254740992 Rice on Square 55 = 18014398509481984 Rice on Square 56 = 36028797018963968 Rice on Square 57 = 72057594037927936 Rice on Square 58 = 144115188075855875 Rice on Square 19 = 262144 Rice on Square 20 = 524288 Rice on Square 21 = 1048576 Rice on Square 22 = 2097152 Rice on Square 23 = 4194304 Rice on Square 24 = 8388608 Rice on Square 25 = 16777216 Rice on Square 26 = 33554432 Rice on Square 27 = 67108864 Rice on Square 28 = 134217728 Rice on Square 29 = 268435456 Rice on Square 30 = 536870912 Rice on Square 31 = 1073741824 Rice on Square 32 = 2147483648 Rice on Square 33 = 4294967296 Rice on Square 33 = 4294967296 Rice on Square 34 = 8589934592 Rice on Square 58 = 1441151880/58558/2 Rice on Square 59 = 288230376151711744 Rice on Square 60 = 576460752303423488 Rice on Square 61 = 1152921504606846976 Rice on Square 62 = 2305843009213693952 Rice on Square 63 = 4611686018427387904 Rice on Square 64 = 9223372036854775808 Total rice = 18446744073709551615 Total rice must be = 18446744073709551615 Rice on Square 33 = 4234907290 Rice on Square 34 = 8589934592 Rice on Square 35 = 17179869184 Rice on Square 36 = 34359738368 Rice on Square 37 = 68719476736 Rice on Square 38 = 137438953472

Figure 1.37: Rice on a chess board