#include <cstdio>

#include <algorithm>

using namespace std;

int k;

int c[31];

int \*d[100010];

bool cmp(int \*a, int \*b)

{

int i;

for (i = 0; i < k; i++)

{

if (a[i] < b[i])

return 1;

if (a[i] > b[i])

return 0;

}

return 0;

}

int main()

{

freopen("lineup.in", "r", stdin);

freopen("lineup.out", "w", stdout);

int n, m, p, q, i, j;

scanf("%d%d", &n, &k);

d[0] = new int[k];

for (j = 0; j+1 < k; j++)

d[0][j] = 0;

d[0][k-1] = 0;

for (i = 1; i <= n; i++)

{

scanf("%d", &p);

for (j = 0; j < k; j++)

c[j] += (p>>j)&1;

d[i] = new int[k];

for (j = 0; j+1 < k; j++)

d[i][j] = c[j]-c[j+1];

d[i][k-1] = i;

}

m = 0;

sort(d, d+n+1, cmp);

for (p = 0; p <= n; p = q)

{

q = p;

while (q <= n)

{

for (i = 0; i+1 < k && d[q][i] == d[p][i]; i++);

if (i+1 < k)

break;

if (m < abs(d[p][k-1]-d[q][k-1]))

m = abs(d[p][k-1]-d[q][k-1]);

q++;

}

}

printf("%d\n", m);

return 0;

}