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PROG: hay4sale

LANG: C++

ID: hayk.sa1

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#include <stdio.h>

bool d[50010];

int main()

{

freopen("hay4sale.in", "r", stdin);

freopen("hay4sale.out", "w", stdout);

int n, m, v, i, j;

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

d[0] = 1;

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

{

scanf("%d", &v);

for (j = m-v; j >= 0; j--)

d[j+v] |= d[j];

}

for (i = m; i >= 0; i--)

if (d[i])

break;

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

return 0;

}