#include <stdio.h>

#define inf 1000000000

int d[510];

int e[10010][3];

int main()

{

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

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

int f, n, m, l, i, j;

scanf("%d", &f);

while (f--)

{

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

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

{

scanf("%d%d%d", e[i], e[i]+1, e[i]+2);

e[m+i][0] = --e[i][1];

e[m+i][1] = --e[i][0];

e[m+i][2] = e[i][2];

}

m <<= 1;

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

{

scanf("%d%d%d", e[m], e[m]+1, e[m]+2);

e[m][0]--;

e[m][1]--;

e[m][2] = -e[m++][2];

}

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

d[i] = inf;

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

if (d[l] == inf)

{

d[l] = 0;

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

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

if (d[e[j][1]] > d[e[j][0]]+e[j][2])

d[e[j][1]] = d[e[j][0]]+e[j][2];

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

if (d[e[i][1]] > d[e[i][0]]+e[i][2])

{

printf("YES\n");

goto there;

}

}

there:;

if (l == n)

printf("NO\n");

}

return 0;

}