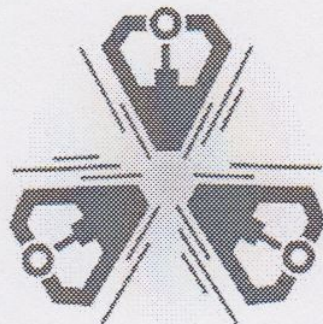


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(шестьдесят)  
Жон  
Корыхин Е.В.



РОБОФЕСТ

Олимпиада школьников  
«РОБОФЕСТ-2016»

Заключительный этап по информатике

Фамилия Имя Отчество участника \_\_\_\_\_

Вережанин Илья Юрьевич \_\_\_\_\_

Класс 10 \_\_\_\_\_ Школа Сам Л И П \_\_\_\_\_

Дата 16.04.16 \_\_\_\_\_ Подпись участника Вережанин \_\_\_\_\_

Шифр robo 16 - 002 \_\_\_\_\_

--- Task A ---

--- Solution 48-000014-34177-robo16\_002-robo16\_002-20160416164759.pas ---

```
var a : array[0..100,0..100] of string;
n,m,i,j,poz1,poz2,pri,prj:integer;
v:string;
begin
#
readln(n,m);
for i:=0 to n+1 do
  for j:=0 to m+1 do
    a[i,j] := '0';
  for i:=1 to n do
    for j:=1 to m do
      readln(a[i,j]);
    for i:= 1 to n do
      for j:=1 to m do
        if a[i,j] = '@' then begin poz1 :=i; poz2 :=j; end;
i := poz1;
j:= poz2;
pri :=i;
prj:=j;
v := '@';
while v <> 'E' do begin
if (a[i,j+1] = 'E') and (a[i,j+1]<>'0') and (prj<>j+1) then
begin
  write('R');
  prj:=j;
  j := j+1;
  v := 'E';
end
else if (a[i,j+1] = '.') and (a[i,j+1]<>'0') and (prj<>j+1) then
begin
  write('R');
  prj:=j;
  j := j+1;
  v := '.';
end
else if (a[i-1,j] = 'E') and (a[i-1,j]<>'0') and (pri<>i-1) then
begin
  write('U');
  pri:=i;
  i := i-1;
  v := 'E';
end
else if (a[i-1,j] = '.') and (a[i-1,j]<>'0') and (pri<>i-1) then
begin
  write('U');
  pri:=i;
  i := i-1;
  v := '.';
end
else if (a[i,j-1] = 'E') and (a[i,j-1]<>'0') and (prj<>j-1) then
begin
  write('L');
  prj:=j;
  j := j-1;
  v := 'E';
end
else if (a[i,j-1] = '.') and (a[i,j-1]<>'0') and (prj<>j-1) then
begin
  write('L');
  prj:=j;
  j := j-1;
  v := '.';
end
```

```

end
else if (a[i+1,j] = 'E') and (a[i+1,j]<>'0') and (pri<>i+1) then
begin
write('D');
pri:=i;
i:=i+1;
v:='E';
end
else
begin
write('D');
pri:=i;
i:=i+1;
v:='.';
end

```

```

end;
end.

```

--- Solution 48-000018-34177-robo16\_002-robo16\_002-20160416170422.pas ---

```

var a : array[0..100,0..100] of string;
n,m,i,j,poz1,poz2,pri,prj:integer;
v:string;
begin
#
readln(n,m);
for i:=0 to n+1 do
for j:=0 to m+1 do
a[i,j] := '0';
for i:=1 to n do begin
readln(s);
j:=1;
k:=1;
while j<=length(s) do begin
a[i,k] := s[j];
k:=k+1;
j:=j+1;
end;
end;
for i:= 1 to n do
for j:=1 to m do
if a[i,j] = '@' then begin poz1 :=i; poz2 :=j; end;
i := poz1;
j:= poz2;
pri:=i;
prj:=j;
v:='@';
while v <> 'E' do begin
if (a[i,j+1] = 'E') and (a[i,j+1]<>'0') and (prj<>j+1) then
begin
write('R');
prj:=j;
j:= j+1;
v:='E';
end
else if (a[i,j+1] = '.') and (a[i,j+1]<>'0') and (prj<>j+1) then
begin
write('R');
prj:=j;
j:= j+1;
v:='.';
end
end
else if (a[i-1,j] = 'E') and (a[i-1,j]<>'0') and (pri<>i-1) then
begin
write('U');
pri:=i;
i:= i-1;

```

```

    v := 'E';
end
else if (a[i-1,j] = '.') and (a[i-1,j]<>'0') and (pri<>i-1) then
begin
    write('U');
    pri:=i;
    i := i-1;
    v := '.';
end
else if (a[i,j-1] = 'E') and (a[i,j-1]<>'0') and (prj<>j-1) then
begin
    write('L');
    prj:=j;
    j := j-1;
    v := 'E';
end
else if (a[i,j-1] = '.') and (a[i,j-1]<>'0') and (prj<>j-1) then
begin
    write('L');
    prj:=j;
    j := j-1;
    v := '.';
end
else if (a[i+1,j] = 'E') and (a[i+1,j]<>'0') and (pri<>i+1) then
begin
    write('D');
    pri:=i;
    i:=i+1;
    v := 'E';
end
else
begin
    write('D');
    pri:=i;
    i:=i+1;
    v := '.';
end
end;
end.

```

--- Solution 48-000019-34177-robo16\_002-robo16\_002-20160416170501.pas ---

```

var a : array[0..100,0..100] of string;
n,m,i,j,poz1,poz2,pri,prj,k:integer;
v,s:string;
begin
    readln(n,m);
    for i:=0 to n+1 do
        for j:=0 to m+1 do
            a[i,j] := '0';
        end;
    end;
    for i:=1 to n do begin
        readln(s);
        j:=1;
        k:=1;
        while j<=length(s) do begin
            a[i,k] := s[j];
            k:=k+1;
            j:=j+1;
        end;
    end;
    for i:= 1 to n do
        for j:=1 to m do
            if a[i,j] = '@' then begin poz1 :=i; poz2 :=j; end;
        end;
    end;
    i := poz1;
    j:= poz2;
    pri :=i;
    prj:=j;

```

```

v := '@';
while v <> 'E' do begin
if (a[i,j+1] = 'E') and (a[i,j+1]<>'0') and (prj<>j+1) then
begin
write('R');
prj:=j;
j := j+1;
v := 'E';
end
else if (a[i,j+1] = '.') and (a[i,j+1]<>'0') and (prj<>j+1) then
begin
write('R');
prj:=j;
j := j+1;
v := '.';
end
else if (a[i-1,j] = 'E') and (a[i-1,j]<>'0') and (pri<>i-1) then
begin
write('U');
pri:=i;
i := i-1;
v := 'E';
end
else if (a[i-1,j] = '.') and (a[i-1,j]<>'0') and (pri<>i-1) then
begin
write('U');
pri:=i;
i := i-1;
v := '.';
end
else if (a[i,j-1] = 'E') and (a[i,j-1]<>'0') and (prj<>j-1) then
begin
write('L');
prj:=j;
j := j-1;
v := 'E';
end
else if (a[i,j-1] = '.') and (a[i,j-1]<>'0') and (prj<>j-1) then
begin
write('L');
prj:=j;
j := j-1;
v := '.';
end
else if (a[i+1,j] = 'E') and (a[i+1,j]<>'0') and (pri<>i+1) then
begin
write('D');
pri:=i;
i:=i+1;
v := 'E';
end
else
begin
write('D');
pri:=i;
i:=i+1;
v := '.';
end
end;
end.

```

--- Task B ---

--- Solution 48-000020-34177-robo16\_002-robo16\_002-20160416170749.pas ---  
var a : array[0..100,0..100] of string;

```

n,m,i,j,poz1,poz2,pri,prj,k,t:integer;
v,s:string;
begin
  readln(n,m,t);
  for i:=0 to n+1 do
    for j:=0 to m+1 do
      a[i,j] := '0';
    for i:=1 to n do begin
      readln(s);
      j:=1;
      k:=1;
      while j<=length(s) do begin
        a[i,k] := s[j];
        k:=k+1;
        j:=j+1;
      end;
    end;
    for i:= 1 to n do
      for j:=1 to m do
        if a[i,j] = '@' then begin poz1 :=i; poz2 :=j; end;
      i := poz1;
      j:= poz2;
      pri :=i;
      prj:=j;
      v := '@';
      while v <> 'E' do begin
        if (a[i,j+1] = 'E') and (a[i,j+1]<>'0') and (prj<>j+1) then
          begin
            write('R');
            prj:=j;
            j := j+1;
            v := 'E';
          end
        else if (a[i,j+1] = '.') and (a[i,j+1]<>'0') and (prj<>j+1) then
          begin
            write('R');
            prj:=j;
            j := j+1;
            v := '.';
          end
        else if (a[i-1,j] = 'E') and (a[i-1,j]<>'0') and (pri<>i-1) then
          begin
            write('U');
            pri:=i;
            i := i-1;
            v := 'E';
          end
        else if (a[i-1,j] = '.') and (a[i-1,j]<>'0') and (pri<>i-1) then
          begin
            write('U');
            pri:=i;
            i := i-1;
            v := '.';
          end
        else if (a[i,j-1] = 'E') and (a[i,j-1]<>'0') and (prj<>j-1) then
          begin
            write('L');
            prj:=j;
            j := j-1;
            v := 'E';
          end
        else if (a[i,j-1] = '.') and (a[i,j-1]<>'0') and (prj<>j-1) then
          begin
            write('L');
            prj:=j;
            j := j-1;
            v := '.';
          end
      end
    end
  end
end

```

```
end
else if (a[i+1,j] = 'E') and (a[i+1,j]<>'0') and (pri<>i+1) then
  begin
    write('D');
    pri:=i;
    i:=i+1;
    v:='E';
  end
else
  begin
    write('D');
    pri:=i;
    i:=i+1;
    v:='.';
  end
end;
end.
```

--- Task C ---