

Re: Rectangle subtraction

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 - *Date:* Thu, 9 Jun 2005 14:35:51 -0000
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What are you looking for?
The dimensions or the area?

If your door dimensions are W, H
and the dimensions of the wood pieces
are w1, h1 ; w2, h2 ; etc.
you get the total area of the array of
rectangles of glass as follows:
 $A = W*H - w1*h1 - w2*h2 - \dots$ etc.
The area of the single rectangle
will be A / n , where n is the number
of all rectangles (assuming they are
all the same).

The program will work as follows:
1a. input door height: (H = input)
1b. input door width (W = input)
2. $A = H*W$
3a. set number of wood pieces n to zero
n = 0
3b. begin loop
input number of same wood pieces (m = input)
or zero to exit
if m == 0 exit loop
else
n = n + 1
input wood piece width (w = input)
input wood piece height (h = input)
end if/else
 $A = A - m*w*h$
end loop
4. print 'area of single glass rectangle is : ', A / n

Is it what you are asking for?

Claudio

"Perry van Kuppeveld" <www@xxxxxxxx> schrieb im Newsbeitrag
[news:42a83236\\$0\\$6809\\$e4fe514c@xx](mailto:news:42a83236$0$6809$e4fe514c@xx)

Re: Rectangle subtraction

> Hi,
>
> I need to write a program to determine the rectangular spaces in a door.
> The door is built of rectangular pieces of wood.
>
> To solve this I thought the following:
> I have one rectangle (width / height of the door) and subtract all pieces
> of
> wood, there's an array of rectangles left, which are the needed rectangles.
>
> I have a poor math knowledge, so any help would be fine.
>
> Thanks,
>
> Perry
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• *Follow-Ups:*

◆ ***Re: Rectangle subtraction***

◇ *From:* Perry van Kuppeveld

• *References:*

◆ ***Rectangle subtraction***

◇ *From:* Perry van Kuppeveld

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