

Quiz on HSR and Texture

The respondent's email (**18101009@uap-bd.edu**) was recorded on submission of this form.

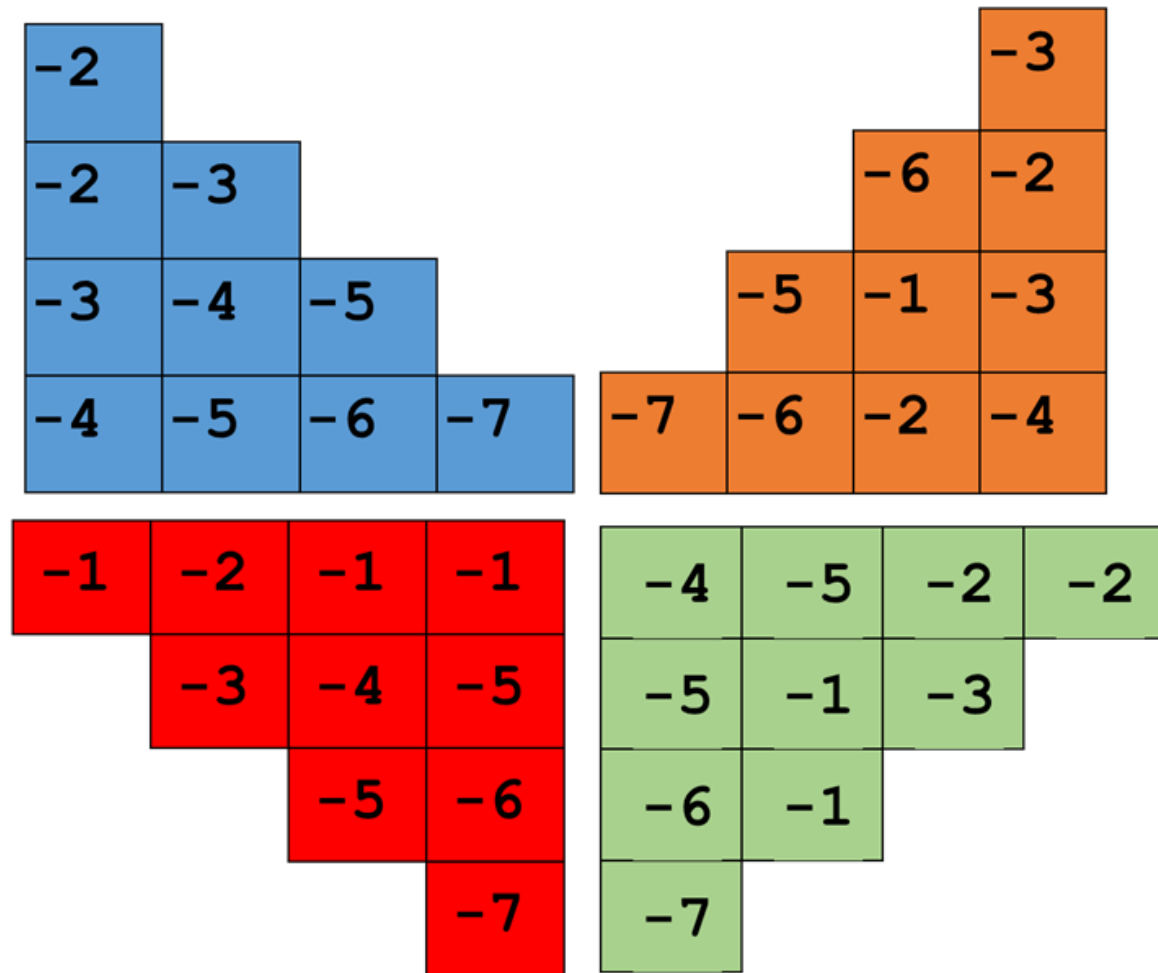
Identify the back facing surfaces from the given normal vectors of the surfaces:

S1 (-4, 3, -5), S2 (6, -3, 5), S3 (9, 2, -1), S4 (-4, -11, -11),

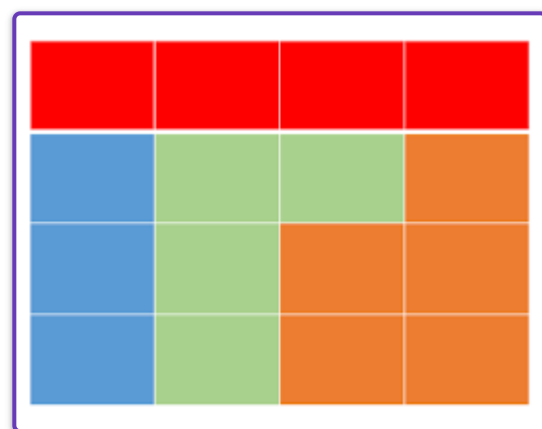
- ☐ S1, S2, S3, S4
- ☐ S1, S2
- ☐ S3, S4
- ☒ S1, S3, S4
- ☐ S1



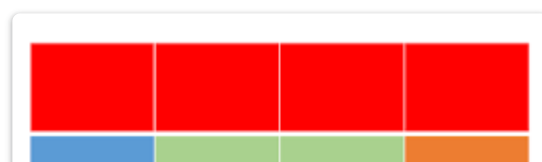
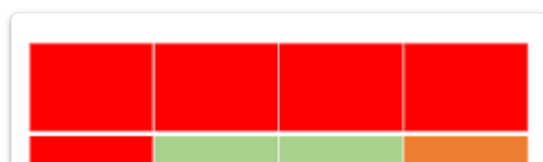
Following triangles (Z-value of each pixel is given) are present in a scene. What will be the output after applying Z-Buffering algorithm?

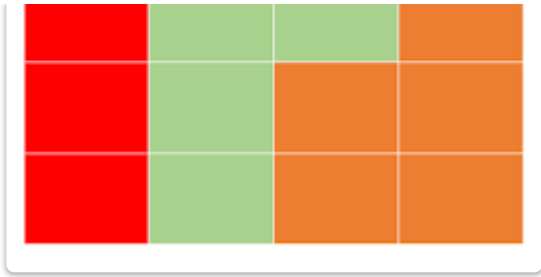


☐ Option 1

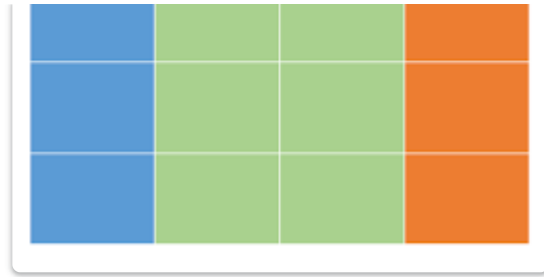


☒ Option 2





☐ Option 3



☐ Option 4

What are the advantages of Z-Buffering algorithm?

- ☐ can handle transparency properly
- ☒ no primitive sorting needed
- ☒ can handle any primitive
- ☐ needs memory to keep the z-values

Which of the following intermediate surfaces are used in the Two Step Texture mapping approach?

- ☒ box
- ☐ points
- ☐ triangles
- ☒ cylinders



When optimal texture mapping is achieved?

- ☐ texel size > pixel size
- ☐ texel size < pixel size
- ☒ texel size \approx pixel size
- ☐ texel size = picture size

Which of the following approaches can be used if the given texture coordinates (u,v) are outside[0,1] range?

- ☐ Barycentric
- ☐ tiling
- ☐ two step mapping
- ☒ clamping
- ☐ planer mapping

Correct answer

- ☒ tiling
- ☒ clamping

What is Mip Mapping ?

- ☐ Mapping texture to six rectangles
- ☒ A pre-calculated, optimized collection of images accompanying a main texture, used to increase rendering speed
- ☐ Maping texture to planar surface
- ☐ Specifying texture coordinates (u,v) during modeling, for all polygon vertices



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