# CS 111 Quiz #2: Instructions

- 8 questions
- Each question displayed for **one minute only**
- Record your responses for each question using your clickers/Reef app
- Record your responses when polling starts for that question
- If you miss a question, you will not receive any credit for it
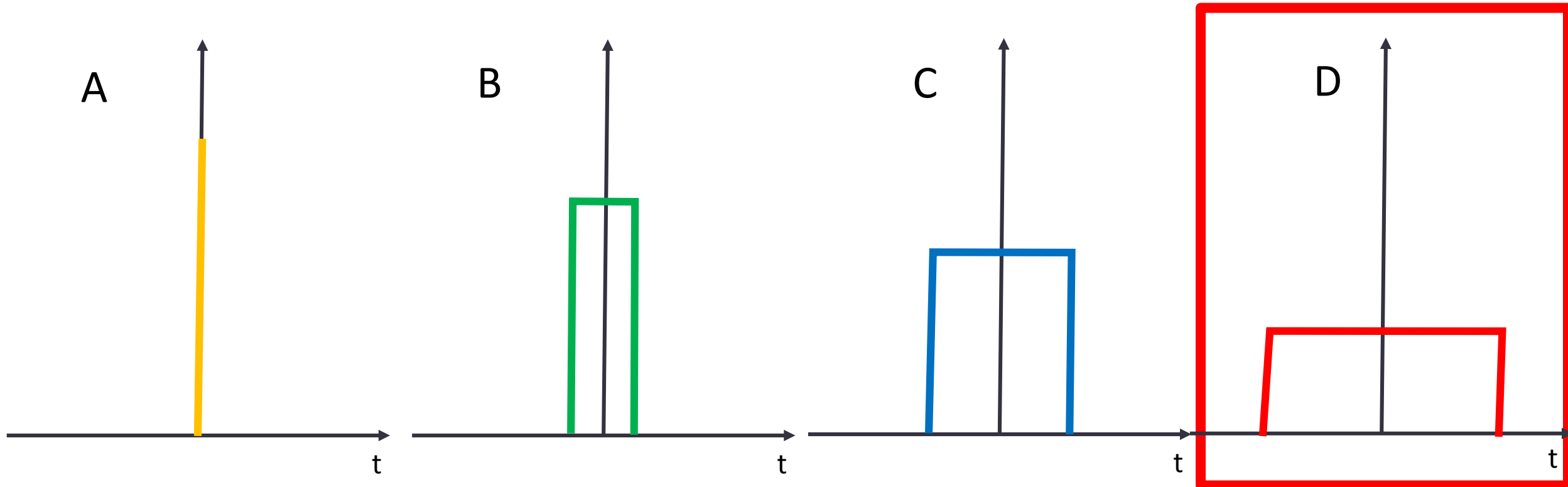
Question #1

What does the following impulse response
do to a signal?

A. Blur

B. Amplify

C. Delay

D. **Both A & B**
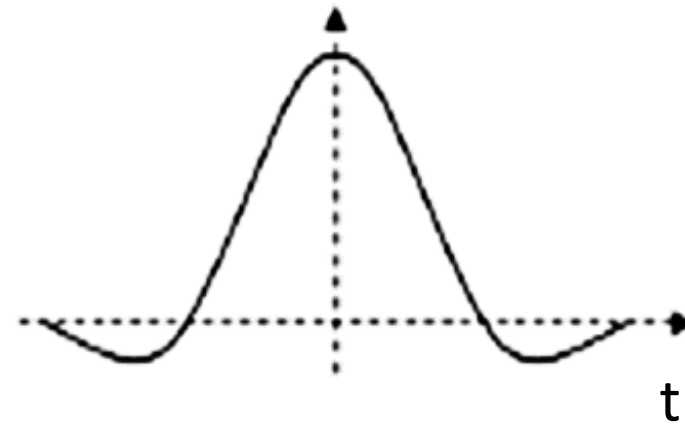
E. None of the above
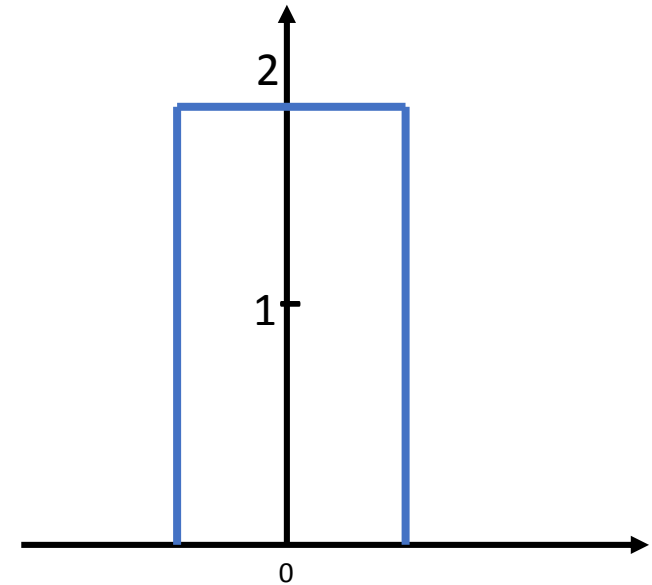
Question #2

Which of the following filters will remove the most amount of frequencies from the input?

Question #3

What type of filter does the figure represent?

A. Band-pass filter

B. **High-pass filter**

C. Low-pass filter

D. Median filter

E. Notch filter

Question #4

Let us consider a signal x(t). Consider this operation $\frac{1}{2}(x(t)*\partial(t) + x(t)*\partial(t-1))$. This is equivalent to:

A. Band-pass filtering of x

B. High-pass filtering of x

C. **Low-pass filtering of x**

D. None of the above

t

Question #5

Laplacian pyramid provides:

A. Low-pass filtering

B. High-pass filtering

C. **Band-pass filtering**

D. None of the above

t

Question #6

Gaussian pyramid provides:

A. High-pass filtering

B. **Low-pass filtering**

C. Band-pass filtering

D. None of the above

t

Question #7

If we widen the support of a filter in the spatial domain, its frequency domain response?

A. Expands

B. Shrinks

C. Remains the same

D. None of the above

t

Question #8

As we go to subsequent levels of the Gaussian pyramid starting with the original image, the sampling requirement

A. Increases
B. **Decreases**
C. Remains the same   t
D. No effect